"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLHAL, Emil, inz.; DUBOVSKY, Vojtech

Development of the production and consumption of electric power in Slovakia after 1945. Energetika Cz 14 no.8:379-380 Ag '64.

1. CHD-ODS, Zilina.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

KVACEK, Milan; PLHAL, Jan; MATUSKA, Jaromir; KUPKA, Frantisek

Discovery of berzelianite $Cu_{2-x}Se$ in Moravia. Cas min geol 8 no.3:267 Jl '63.

1. Ustav nerostnych surovin, Kutna Hora a Geologicky pruzkum Jachymovskych dolu, Nove Mesto na Morave.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLHA, Jiri

Material incentives and accidents. Prace mzda 12 no.1:14-18 Ja '64.

1. Ustredni vybor odboroveho svazu zamestnancu v zemedelstvi a lesnim hospodarstvi.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

SVAB, Svatopluk; PLHAL, Milos

Improvement of the work organization and of planning the labor requirements. Prace mzda 10 no.7:315-320 Jl '62.

1. Moravia, n.p., Marianske Udoli.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLHON, Bohuslav

Melting materials off with a carbon electrode. Zvaranie 13 no. 4:124 Ap '64.

1. Svermovy zavody National Enterprise, Brno.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLHON, Bohuslav

Melting materials off with a carbon electrode. Zvaranie 13 no. 4:124 Ap '64.

1. Svermovy zavody National Enterprise, Brno.

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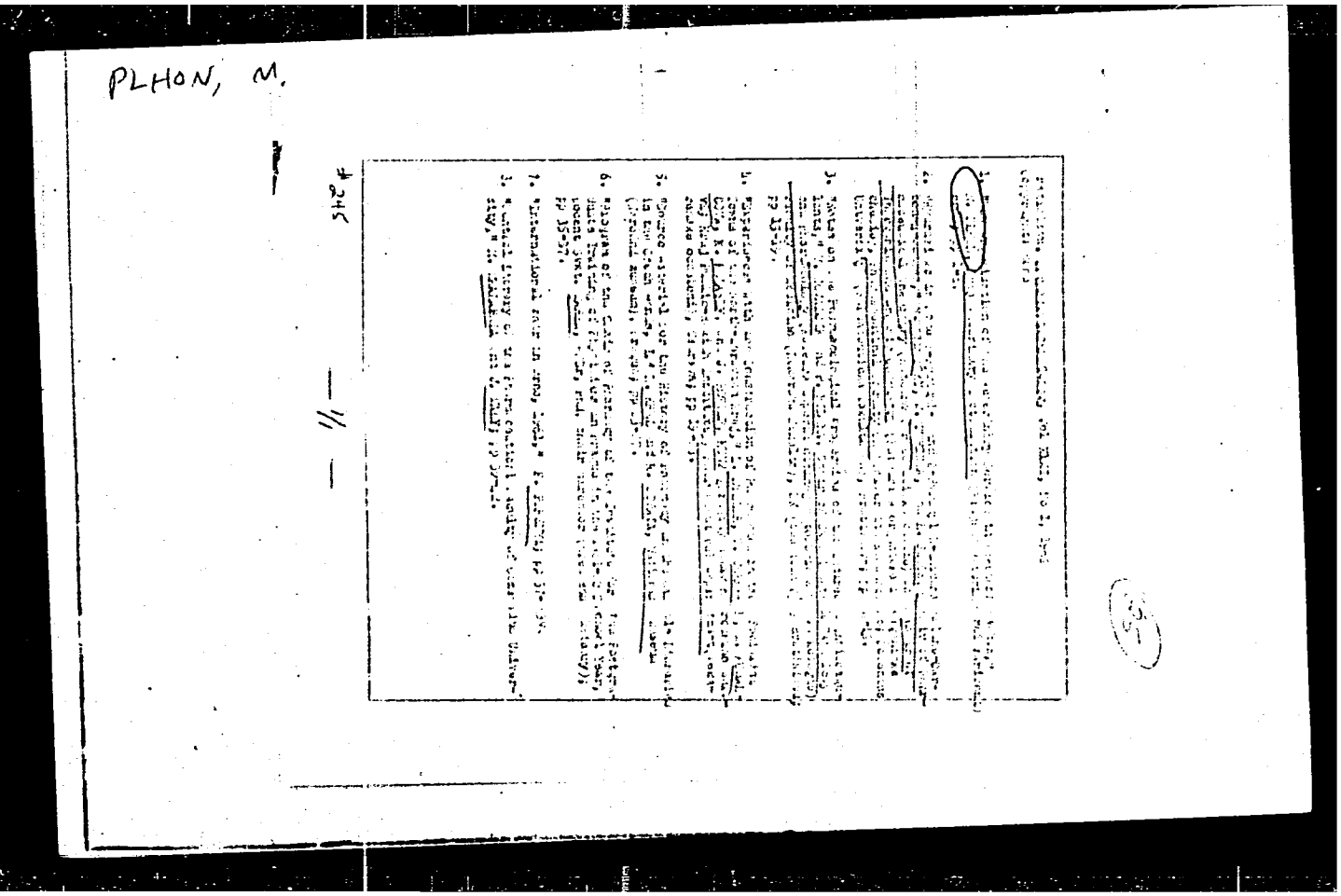
"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLHON, M.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLHON, M.



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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PIHON, M.

Method of biological evaluation of anti-inflammatory effect of drugs. Cesk. fysiol. 7 no.2:129-140 Mar 58.

1. Z Katedry farmakologie veterinarni fakulty Vysoke skoly zemedelske v Brne.

(INFLAMMATION,
anti-inflamm. drugs, biol. testing (Cz))

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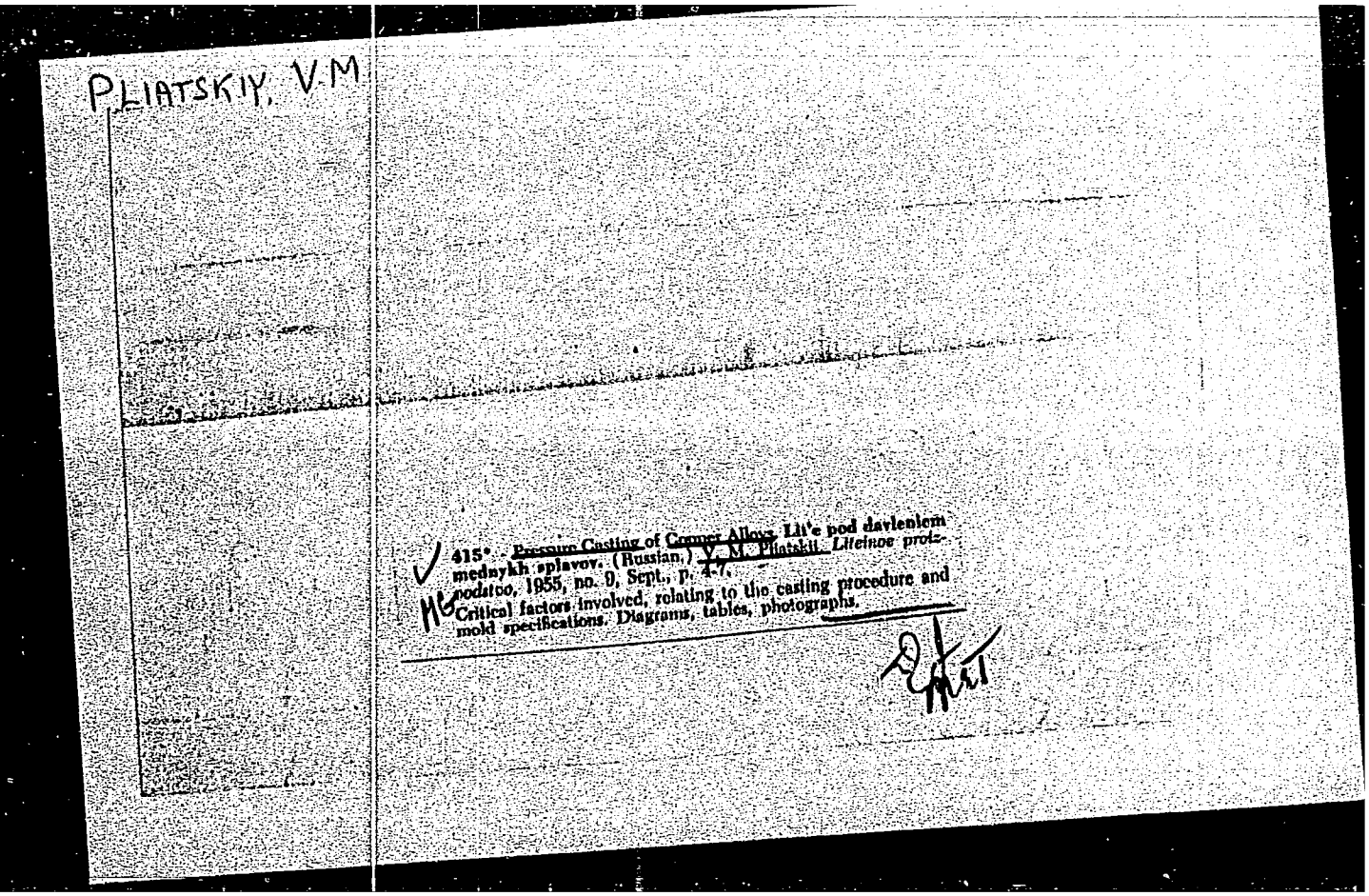

PLIATSKIY, V.M.

415*. Pressure Casting of Copper Alloys. Lit'e pod davleniem mednykh splavov. (Russian.) V.M. Pliatskii. *Liteinoe proizvodstvo*, 1955, no. 9, Sept., p. 4-7.
Critical factors involved, relating to the casting procedure and mold specifications. Diagrams, tables, photographs.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLUTERIY, V.M.

(1) Met

B. T. R.
Vol. 3 No. 4
Apr. 1954
Metals-Foundry Practice

5278* New Tendencies in the Construction of Pouring Systems for Casting Under Pressure. (Russian.) V. M. Plutekil. *Liteinoe Proizvodstvo*, 1953, no. 8, Aug., p. 5-8.

Suggestions are offered for obtaining castings with well defined edges, precise contours, and a minimum of porosity caused by air. Photographs, diagrams.

6/8/54 MM

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLIATSCKIT, V. M.

Author: Pliatsckit, V.M.

Title: Casting Under Pressure
399 pp., diagr., bibliography

Date: 1946. Moscow

Subject: 1. Dies (Metal - Working) 2. Founding.

Available: Library of Congress, Call No: TS239.P6

Source: Lib. of Cong. Subj. Cat., 1950 V.2

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLIATSKII, V. M.

Author: Pliatskii, V. M.

Title: The technology of casting under pressure. (Tekhnologiia lit'ia pod davleniem.) 306 p.

City: Moscow
Publisher:
Publication: State Printing House of Scientific and Technical Literature pertaining to Machine Construction.

Date: 1949

Available: Library of Congress

Source: Monthly List of Russian Accessions, Vol. 3, No. 2, Page 100

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLICHTA, Karel

Limitation of driving fuel transportation and storage in iron barrels. Kopa a uhlie 7 no.4:123-124 Ap '65.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLIATZKY, V M

LITYE POD DAVLENIEM (Die Casting), 1946

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

ROTHENSTEIN, B.F.; POLICEC, A.

On the simultaneous action mechanism of a periodic mechanical stress and an alternative magnetic field in the reversible movement of the Bloch wall. Chekhosl fiz zhurnal 15 no.3: 201-203 '65.

1. Polytechnical Institute, Timisoara III, Str. Severin 11, Rumania. Submitted May 11, 1964.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

SOBOLEV, Dmitriy Zakharovich; PLICHE, V.O., red.; NAZAROVA, A.S., tekhn. red.

[In the land of legends] V kraiu legend. Moskva, Izd-vo "Znanie," 1961. 79 p. (MIRA 15:2)

1. Sekretar' Taymyrskogo okruzhnogo komiteta Kommunisticheskoy partii Sovetskogo Soyuza (for Sobolev).
(Taymyr peninsula--Economic conditions)
(Taymyr Peninsula--Nationalities)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLICHKA, M. [Plicka, M.]

Bitumen occurence in the Carpathian Flysch on the Czechoslovak territory. Prace ust naft 18:34 '61.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLICHTA, E.

"Problem of labor absorption in the state-owned farm; some observations made on the Gulczewo State-Owned Farm near Wrzesnia" (p. 37) NOWE ROLNICTWO (Panstwowe Wydawnictwo Rolnicze i Lesne) Warszawa, Vol 2, No 11, Nov. 1953.

SO: East European Accessions List, Vol 3, No 8, Aug 1954

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLICHTA, J.: MATOUSEK, O.

PLICHTA, J.; MATOUSEK, O. Safety at work and the task of design engineers. p. 38.

Vol. 2, No. 2, Feb. 1957.
NOVA TECHNICAL
TECHNOLOGY
Czechoslovakia

So. East European Accessions, Vol. 6, No. 5, May 1957

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLICHTA, J.

Kubina, H. and Plichta, J.

The Action of Hydrazine on Quinquevalent Arsenic in Sulfuric Acid Solutions.

Z. Anal. Chem., Vol. 74, 1928, pp. 235-247.

Chem. Abst., V. 22, Pt. 3, P. 3863

While making some distns. of arsenate solns. with HCl and KBr, using hydrazine sulfate to reduce the arsenate to the tervalent condition, it was noticed that a grayish black deposit of As was sometimes deposited in the condenser. This led to a careful study of the reaction between hydrazine and quinquevalent As, the outcome of which showed that in moderately acid solns. the As is to a slight extent reduced to AsH_3 which is subsequently oxidized to the metallic condition. The reaction does not take place with arsenite solns. contg. no arsenate nor when considerable HCl is present.

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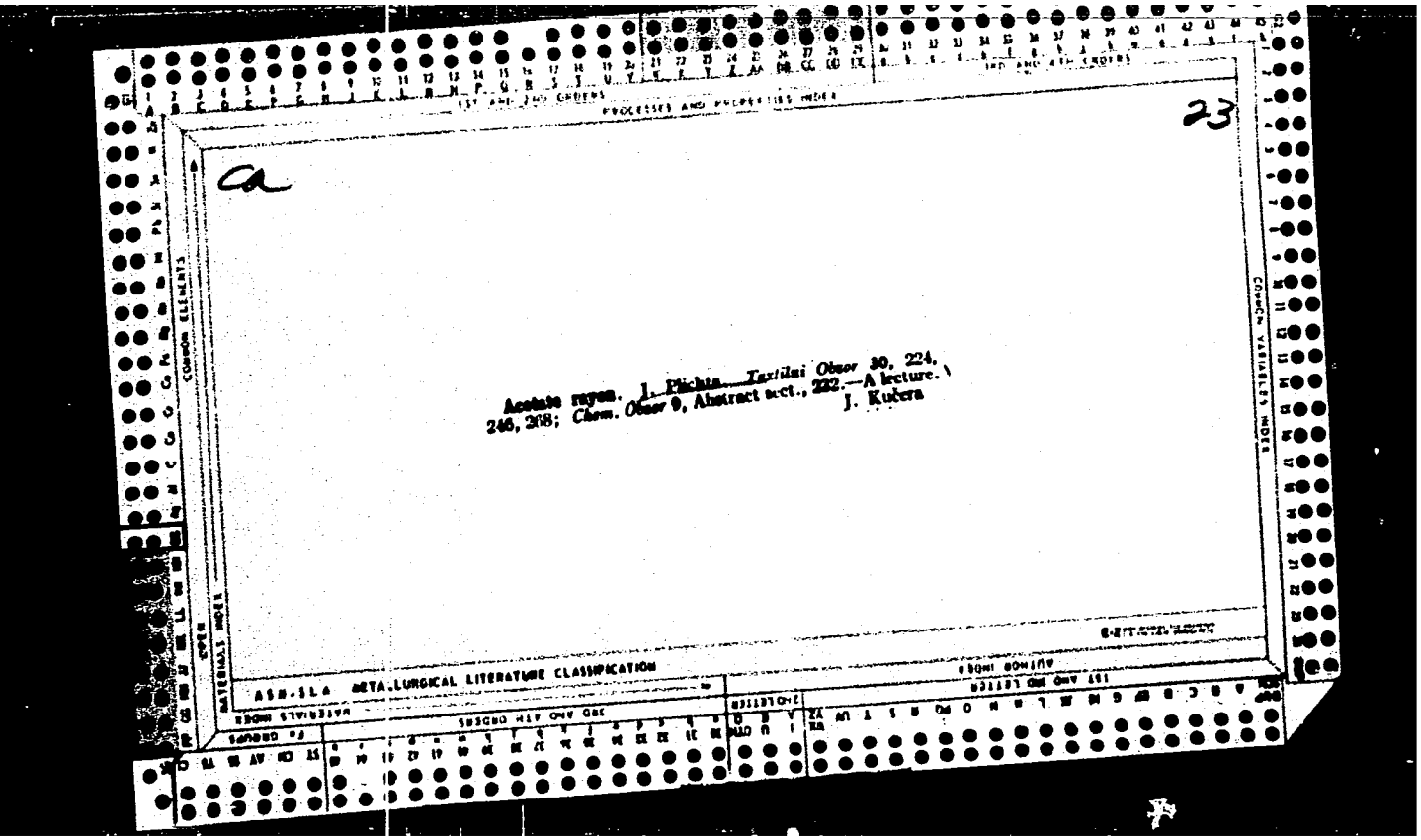
"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3



APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLICHTA, Karel

Economical use of iron barrels. Ropa a uhlie 5 no.7:214-215 Jl '63.

1. Benzina, n.p., Praha.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLICHTA, Milan, inz.

Technological development from the theoretical viewpoint. Vodni hosp 14 no.7:241-243 '64

1. Ministry of Agriculture, Forestry, and Water Resources Management, Prague.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLICHTA, Milan, inz.

Problems of new technology and science. Vodni hosp no.9: 381-384 S '62.

1. Ministerstvo zemedelstvi, lesniho a vodniho hospodarstvi.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

STALIK, Josef, inz.; PLICHTOVA, Kvetuse; SLADEK, Rudolf

Heat treatment of meat and meat products by electric current.
Prum potravin 13 no.12:630-633 D '62.

1. Prumyslova skola technologie masa, Praha.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLICKA, Miroslav; KLUGL, Jan

Menilite layers between Slavkov and Valasske Mezirici with respect to their bitumen content. Prace Ust naft 19 no.84/91:71-84 '62.

1. Ceskoslovenske naftove doly, n.p., Vyzkumny ustav Brno.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

ELIAS, Mojmir; PLICKA, Miroslav

Contribution to the study of layers of the Upper Paleocene section of the White Carpathian unit; borehole Komna 1. Prace Ust naft 19 no.84/91:85-98 '62.

1. Ustredni ustav geologicky, Praha (for Elias).
2. Ceskoslovenske naftove doly, n.p., Vyzkumny ustav Brno (for Plicka).

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLICKA, V.

A Hussite house in Bratislava. p. 308.
Vol. 31, no. 10, Oct. 1954.

SOURCE: East European Accessions List. (EEAL) Library of Congress.
Vol. 5, No. 8, August 1956.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLICKA, V.

We are building a new Bratislava. p. 122.
NO. 4, Apr. 1955.

SOURCE: East European Accessions List. (EEAL) Library of Congress.
Vol. 5, No. 8, August 1956.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLICKA, V.

"Bratislava, from the Celtic oven to the great constructions of the Five-Y ear Plan", P. 26., (SBORNIK, Vol. 30, No. 2, 1953, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6, June 1955, Uncl.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLICKOVA, E.

Supplements to the history of pottery at Pozdisovce. p. 100. SLOVENSKY NARODOPIS. (Slovenska akademia vied) Bratislava. Vol. 4, no. 1, 1956.

SOURCE: East European Accessions List, Vol. 5, no. 9, September 1956

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLICKOVA, E.

Slovenske ludove umenie, vytvarny prejav (Slovak Folk Art, Plastic Expressions); a book review. p.279. SLOVENSKY NARODOPIS. (Slovenska akademia vied) Bratislava. Vol. 3, no. 2, 1955

SOURCE: East European Accessions List, (EEAL), Library of Congress, Vol. 4, No. 12, December 1955

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLICKOVA, E.

"Minere' knocking tower in Slovakia."

SLOVENSKY NARODOPIS, Praha, Czechoslovakia, Vol. 7, No. 2, 1959

Monthly list of EAST EUROPEAN ACCESSIONS (EEAI), LC, Vol. 8, No. 7, July 1959, Unclas

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLICKOVA, E.

"A. Guntherova-Mayerova's Ferdis Kostka; a Book Review." p. 417,
(CESKOSLOVENSKA ETHNOGRAFIE, Vol. 2, No. 4, 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4
No. 5, May 1955, Uncl.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLICKOVA, ESTER

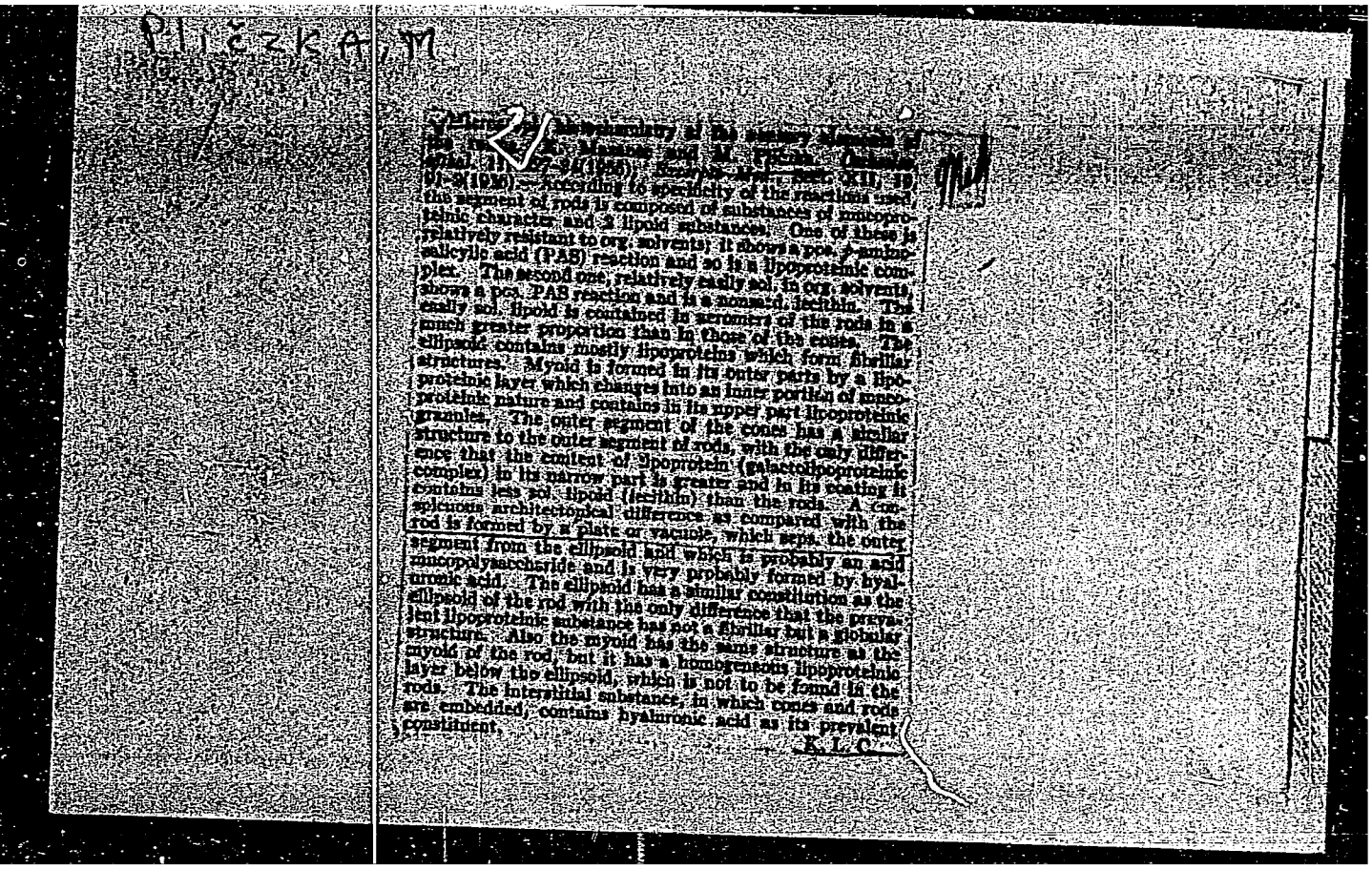
"Banska Stiavnica. [Vyd. 1.] Martin, Osveta, 1957. (Banska Stiavnica. 1st ed. chiefly illus.)

p.130 (Martin, Osveta, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 8, August 1958

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3



Pilczka, M.

[illegible] histochemistry of the sensory elements of the [illegible] M. Monroe and M. Pilczka. (Institute of Histol., Jagellonian Univ., Cracow, Poland.) Acta Histochem. (Jena) 3: 77-84(1956). Knowledge of the histochemistry of the sensory elements of the [illegible] is still very scanty. According to specificity of the reactions used, the segment of rods is composed of substances of mucopolysaccharidic character and 2 lipoid substances. One of these is relatively resistant to org. solvents; it shows a pos. p-aminosalicylic acid (PAS) reaction and so is a lipoproteinic complex. The second one, relatively easily sol. in org. solvents, shows a pos. PAS reaction and is a nonsatd. lecithin. The easily sol. lipoid is contained in segments of the rods in a much greater proportion than in those of the cones. The ellipsoid contains mostly lipoproteins which form fibrillar structures. Myoid is formed in its outer parts by a lipoproteinic layer which changes into an inner portion of mucoproteinic nature and contains in its upper part lipoproteinic granules. The outer segment of the cones has a similar structure to the outer segment of rods, with the only difference that the content of lipoprotein (galactolipoproteinic complex) in its narrow part is greater and in its swelling it contains less sol. lipoid (lecithin) than the rods. A conspicuous architectonical difference as compared with the rod is formed by a plate or vacuole, which seps. the outer segment from the ellipsoid and which is probably an acid mucopolysaccharide and is very probably formed by hyaluronic acid. The ellipsoid has a similar constitution as the ellipsoid of the rod with the only difference that the prevalent lipoproteinic substance has not a fibrillar but a globular structure. Also the myoid has the same structure as the myoid of the rod, but it has a homogeneous lipoproteinic layer below the ellipsoid, which is not to be found in the rods. The interstitial substance, in which cones and rods are embedded, contains hyaluronic acid as its prevalent constituent.

—K. L. C.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

MAZANEC, Karel; PLICZKA, Zdanek

Microscopic histochemistry of the sensory elements of the retina. Cesk. oft. 11 no.4-5:227-234 1955.

1. Z histologicko-embryologickeho ustavu lekarske fakulty Masarykovy university v Brne. Prednosta: Dr Karel Mazanec
(RETINA, anatomy and histology
histochemistry of rods & cones)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

KOROLEV, S.; SIMKIN, Ye.; PLIESMANE, I.[translator]; LIELPETERS, P., red.; BALODIS, A., tekhn. red.

[Second goal for 1963] Otro robeslikiju - 1963 gada. Riga, Latvijas Valsts izdevnieciba, 1963. 21 p. (MIRA 16:5)
(Latvia--Stock and stock breeding--Economic aspects)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

Z/034/60/000/05/006/029
E073/E535

AUTHOR: Plieśovský, Ján

TITLE: Research in the Field of Metallurgical Ceramics

PERIODICAL: Hutnické listy, 1960, No 5, pp 353-355

ABSTRACT: Research in this field is headed by Engineer Doctor Ž. Snutný. In this article a review is given of the main research problems solved by the Research Institute for Metallurgical Ceramics. The primary task of this institute is to deal with problems of manufacture and application of refractories in the Czech metallurgical industry.

ASSOCIATION: Výskumný ústav pre hutnicku keramiku, Bratislava
(Research Institute for Metallurgical Ceramics, Bratislava)

Card 1/1

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLIESOVSKY, Pavel

Concentration and the development of economical methods of mining in Slovak mines. Uhli 5 no.9:305-306 S'63.

1. Zdruzenie slovenskych uholnych bani, Prievidza.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLIGIN, A.M.

Category : Microbiology-Microbes Pathogenic for Man and Animal

Abs. Jour : Ref Zhur - Biol., No.19, 1958, 86144

Author : [illegible], Shlavskaya, M.N.

Institut. : -

Title : The So-Called Bacteria Carrier State in Dysentery

Orig Pub. : Zh. Mikrobiol., Epidemiol., i Immunobiol., 1956, No.1, 76-82

Abstract : no abstract

Card: 1/1

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLIGIN A.M.

SEPPI, I.V.; PLIGIN, A.M.; BULAVSKAYA, M.N.

The so-called bacterial carriers in dysentery. Zhur.mikrobiol.epid. i immun. no.1:76-82 Ja '58. (MIRA 11:4)
(DYSENTERY, BACILLARY, transmiss on, carriage (Rus)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLIGIN S.G.

USSR /Chemical Technology. Chemical Products and Their Application I-21

Medicinals. Vitamins. Antibiotics.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32294

Author : Pligin S.G., Portnov A.I.

Title : Determination of Penicillin in Its Complex Preparations

Orig Pub: Aptech. delo, 1956, No 3, 19-22

Abstract: A method is proposed for the determination of penicillin (I) in novocain salt of penicillin (II) and in Novocillin (III), by colorimetry of Cu-salts of hydroxamic acids of I. About 0.1 g I treated with 75 ml water at 45-50° for 10-15 minutes, cooled, diluted to 100 ml;

Card 1/3

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

USSR /Chemical Technology. Chemical Products and Their Application

I-21

Medicinals. Vitamins. Antibiotics.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32294

definite volumes of the solution diluted in a test tube to 3-5 ml, added 4.5 ml of a mixture of 1 N $NH_2OH.HCl$ and 1 N NaOH (pH 6.0), after 3-5 minutes added 1-1.5 ml 2 N CH_3COOH, 3 drops 5% solution of Cu nitrate (computed on the basis of the cathion) and shaken. Then added 11.5 ml isobutyl alcohol, mixed thoroughly and the test tube is allowed to stand for 1-2 minutes to let the stratify; 0.5 ml alcohol added, mixed carefully, and colorimetry is carried out. Average error in determination of I does not exceed 1%. To determine the activity of II a calibration graph is plotted, using crystalline benzyl-I.

Card 2/3

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLIGIN, S.G.

Determination of aminazine and dinezin. Apt. delo 13 no.5: 44-50 S-O '64. (MIRA 18:3)

1. Zaporozhskiy fakul'tet Dnepropetrovskogo inzhenerno-stroitel'nogo instituta.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLIGIN, S.G.

Stability of penicillin and its hydroxamic acids in aqueous solutions. Apt.delo 6 no.6:22-26 N-D '57. (MIRA 10:12)

1. Iz Odesskogo farmatsevticheskogo instituta Ministerstva zdravookhraneniya USSR.
(PENICILLIN) (HYDROXAMIC ACIDS)

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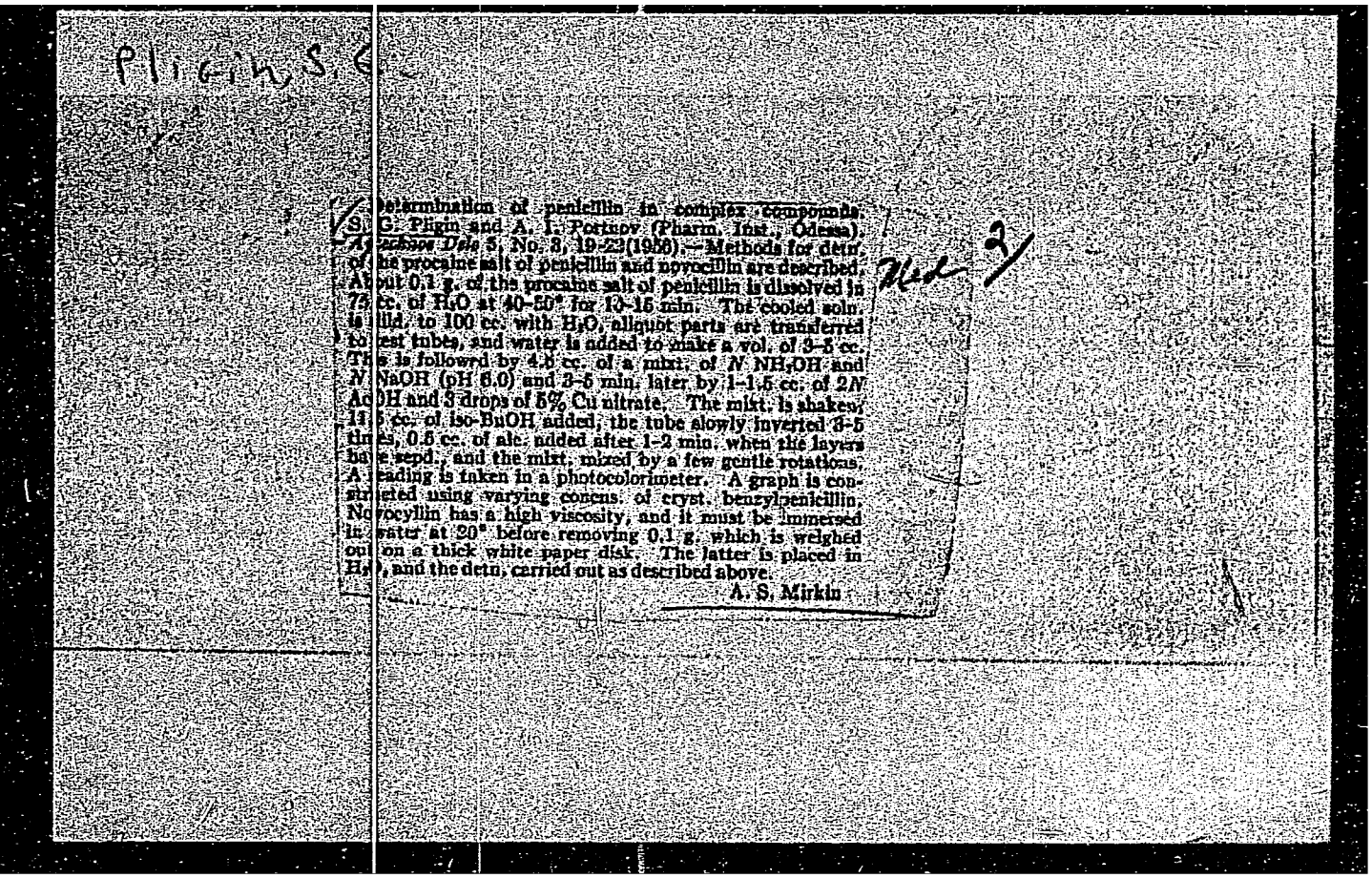

Pligin, S. G.

Determination of penicillin in complex compounds. S. G. Pligin and A. I. Portnov (Pharm. Inst., Odessa). *Farmatsiya Deda* 5, No. 3, 19-22(1956).—Methods for detn. of the procaine salt of penicillin and novocillin are described. About 0.1 g. of the procaine salt of penicillin is dissolved in 75 cc. of H_2O at 40-50° for 10-15 min. The cooled soln. is filld. to 100 cc. with H_2O, aliquot parts are transferred to test tubes, and water is added to make a vol. of 3-5 cc. This is followed by 4.5 cc. of a mixt. of *N* NH_4OH and *N* NaOH (pH 6.0) and 3-5 min. later by 1-1.5 cc. of 2*N* AcOH and 3 drops of 5% Cu nitrate. The mixt. is shaken, 11.5 cc. of iso-BuOH added, the tube slowly inverted 3-5 times, 0.5 cc. of alc. added after 1-2 min. when the layers have sepd., and the mixt. mixed by a few gentle rotations. A reading is taken in a photocolorimeter. A graph is constructed using varying concns. of cryst. benzylpenicillin. Novocylin has a high viscosity, and it must be immersed in water at 20° before removing 0.1 g. which is weighed out on a thick white paper disk. The latter is placed in H_2O, and the detn. carried out as described above.

A. S. Mirkin

Rec 3/

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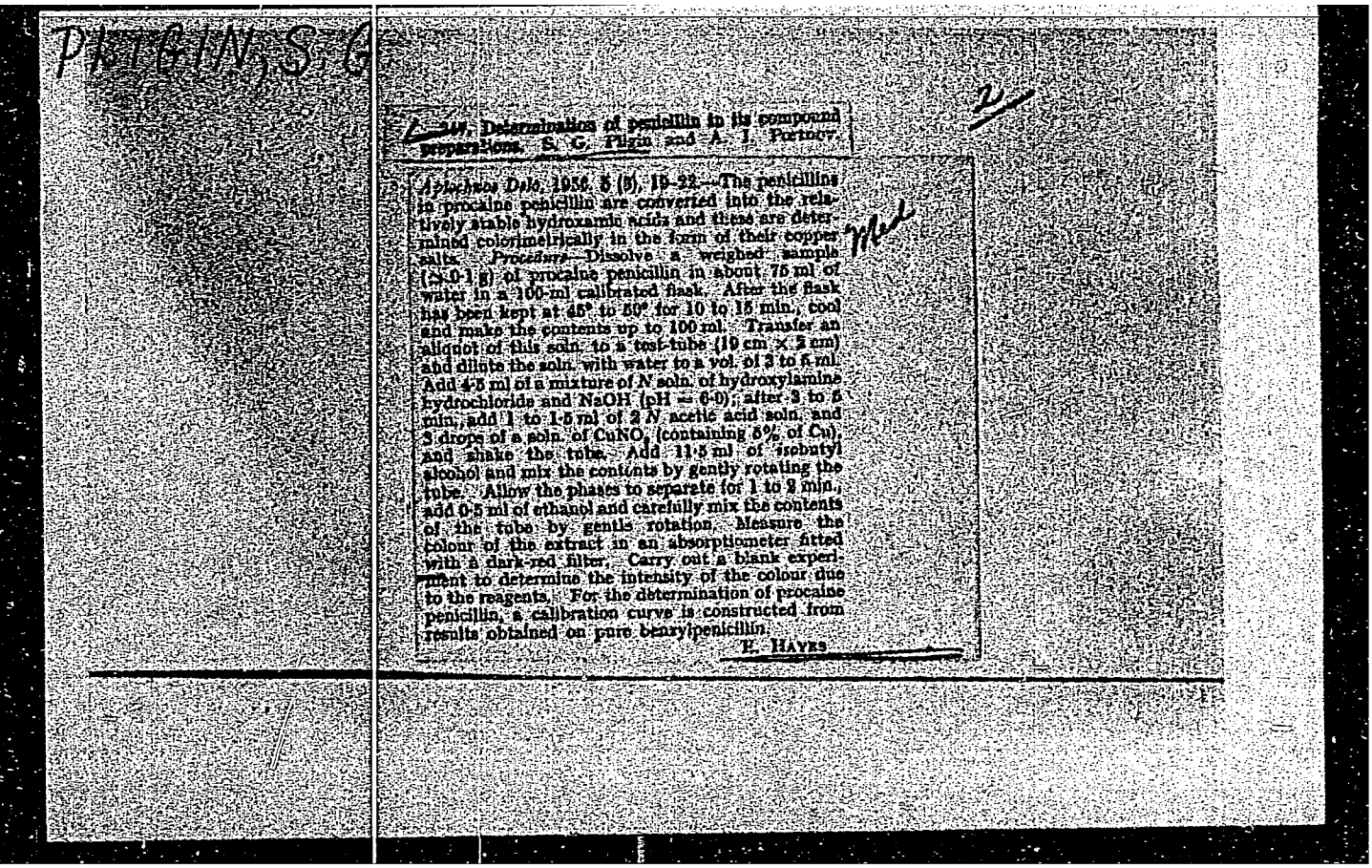

PLAIN, S-G

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2—xiv. Determination of penicillin in its compound preparations. S. G. Plain and A. J. Portnoy.

Analytica Chim. 1956, 5 (5), 19–22.—The penicillins in procaine penicillin are converted into the relatively stable hydroxamic acids and these are determined colorimetrically in the form of their copper salts. *Procedure.*—Dissolve a weighed sample (≈0·1 g) of procaine penicillin in about 75 ml of water in a 100-ml calibrated flask. After the flask has been kept at 45° to 50° for 10 to 15 min., cool and make the contents up to 100 ml. Transfer an aliquot of this soln. to a test-tube (10 cm × 2 cm) and dilute the soln. with water to a vol. of 3 to 5 ml. Add 4·5 ml of a mixture of *N* soln. of hydroxylamine hydrochloride and NaOH (pH = 6·0); after 3 to 5 min., add 1 to 1·5 ml of 2 *N* acetic acid soln. and 3 drops of a soln. of $CuNO_3$ (containing 5% of Cu), and shake the tube. Add 11·5 ml of isobutyl alcohol and mix the contents by gently rotating the tube. Allow the phases to separate for 1 to 2 min., add 0·5 ml of ethanol and carefully mix the contents of the tube by gentle rotation. Measure the colour of the extract in an absorptiometer fitted with a dark-red filter. Carry out a blank experiment to determine the intensity of the colour due to the reagents. For the determination of procaine penicillin, a calibration curve is constructed from results obtained on pure benzylpenicillin.

E. HAYES

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PLIGIN, S. G.

"Development of Methods of Qualitative and Quantitative Determination of Penicillin." Cand Pharm Sci, Tartu State U, Min Higher Education USSR, Tartu, 1955. (KL, No 14, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

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PLIGIN, S.G. [Plihin, S.H.]

Phenylstibinic acid and its derivatives in the microcrystalloscopic analysis of alkaloids and their substitutes. Farmatsev. zhur. 18 no. 1:62-67 '63. (MIRA 17:10)

1. Kafedra farmatsevticheskoy khimii Zaporozhskogo farmatsevticheskogo instituta.

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GALLAY, Ya.S., dotsent; IVONIN, B.A., inzh.; PLINER, G.Ye., inzh.

Cleaning the surface of metal strip. Stal' 24 no.2:155-156 F '64.
(MIRA 17:9)

1. Severo-Zapadnyy zaochnyy politekhnicheskiy institut i Leningradskiy staleprokatnyy zavod.

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~~PLIGIN, Yu.S.~~ PLIGIN, Yu.S.

CARD 1 / 2 PA - 1765

SUBJECT USSR / PHYSICS
AUTHOR MEŠKOVSKIJ, A.G., PLIGIN, JU.S., ŠALAMOV, JA.JA., SEBANOV, V.A.
TITLE The Creation of Positive Pions by 660-MeV-Protons on Hydrogen.
PERIODICAL Žurn. eksp. i teor. fis, 31, fasc. 4, 560-564 (1956)
Issued: 1 / 1957

On the synchrotron of the Institute for Nuclear Problems of the Academy of Science in the USSR the authors investigated the energy spectra of the pions created by the reactions $p + p \rightarrow \pi^+ + d$ and $p + p \rightarrow \pi^+ + p + n$ (energy of the inciding protons 660 MeV) at angles of observation of 29, 46, and 65° towards the bundle. The two reactions were not examined separately. For the registration of pions and for the determination of their energy the method of magnetic analysis was employed. The scheme of the test order is illustrated in form of a drawing. The efficacy of the creation of pions on hydrogen was determined from the difference paraffin-carbon. A paraffin parallelepiped served as a target. The necessary control tests and corrections are discussed.

The results obtained are illustrated in form of a diagram (ordinate-production cross section of mesons $d^2\sigma/d\Omega\, dE$ in cm^2 $sterad^{-1}$ MeV per 1 nucleon, abscissa - energy of mesons in MeV). Further diagrams illustrate the meson spectra converted to the center of mass system of the two colliding particles.

Discussion of results: The production cross section $d\sigma/d\Omega$ of the two aforementioned reactions, which was converted into the center of mass system, remains constant for the three investigated angles within the limits of measuring

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLIGIN, YU.S.

SUBJECT USSR / PHYSICS CARD 1 / 2 PA - 1879
AUTHOR MEŠKOVSKIJ,A.G., PLIGIN,YU.S., ŠALAMOV,JA.JA., ŠEBANOV,V.A.
TITLE The Production of Positive Pions by 660-MeV-protons on Nuclei of Various Elements.
PERIODICAL Žurn.eksp.i teor.fis,31,fasc.6, 987-992 (1956)
Issued: 1 / 1957

Experimental methods: The present work was carried out on the exterior proton bundle of the synchrocyclotron of the Institute for Nuclear Problems of the Academy of Science in the USSR. The charged pions were registered by the method of magnetic analysis. All measurements were carried out at an angle of observation of 45° with respect to the bundle of the 660 MeV protons. Targets of Li, Be, C, Al, Cu, Ag and Pb were used. The lithium target consisted of a massive plate of 1 cm thickness, and the targets of the other elements consisted of several plates. In connection with the experiments carried out with silver and lead the yield of positive pions was measured only at meson energy. In the case of the remaining elements the differential spectra of the positive pions created in the energy interval of from 70 to 320 MeV was recorded.
Measuring results: are shown in form of a table. The yield of positive mesons on Ag and Pb was measured at a meson energy of 158 ± 5 MeV. The values of $d^2\sigma/d\Omega\, dE$ measured for a nucleus amounted for silver to $(7,90\pm1,33).10^{-29}$ cm^2 sterad^{-1} MeV^{-1} and for Pb $(7,62\pm1,43).10^{-29}$ cm^2 sterad^{-1} MeV^{-1}. The spectra constructed on the basis of the data obtained are illustrated in form of a diagram,

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Zurn.eksp.i teor.fis,31,faso.6, 987-992 (1956) CARD 2 / 2 PA - 1879

and a further diagram shows the results of the integration of the spectra. In the case of this integration it was assumed that these spectra are cut off at a pion energy of about 390 MeV.

Discussion of results: The spectra obtained here are very similar, particularly if all spectra are reduced to the same measure. The curve extrapolated from the experimental points is extrapolated into the domain of high energies in good agreement with the maximum pion energy of 390 MeV. The cross section of the production of positive pions by 660 MeV protons at the angle of emission of 45° attains its maximum in the case of the here investigated elements within the energy range of about 140 MeV. At the same energy in the laboratory system and with the same experimental conditions prevailing, the maximum of the production of positive pions is observed in connection with the reaction $p + p \rightarrow \pi^+ + p + n$. At a proton energy of 660 MeV the dependence of the yield of positive pions on atomic weight is essentially of the same character as in the case of lower proton energies (240 - 380 MeV). In the case of the elements from Li to Al the pions are produced on the surface nucleons of the nucleus, and with a further increase of atomic weight the absorption of the protons and the creation of charged pions apparently increases in the nuclear matter.

INSTITUTION:

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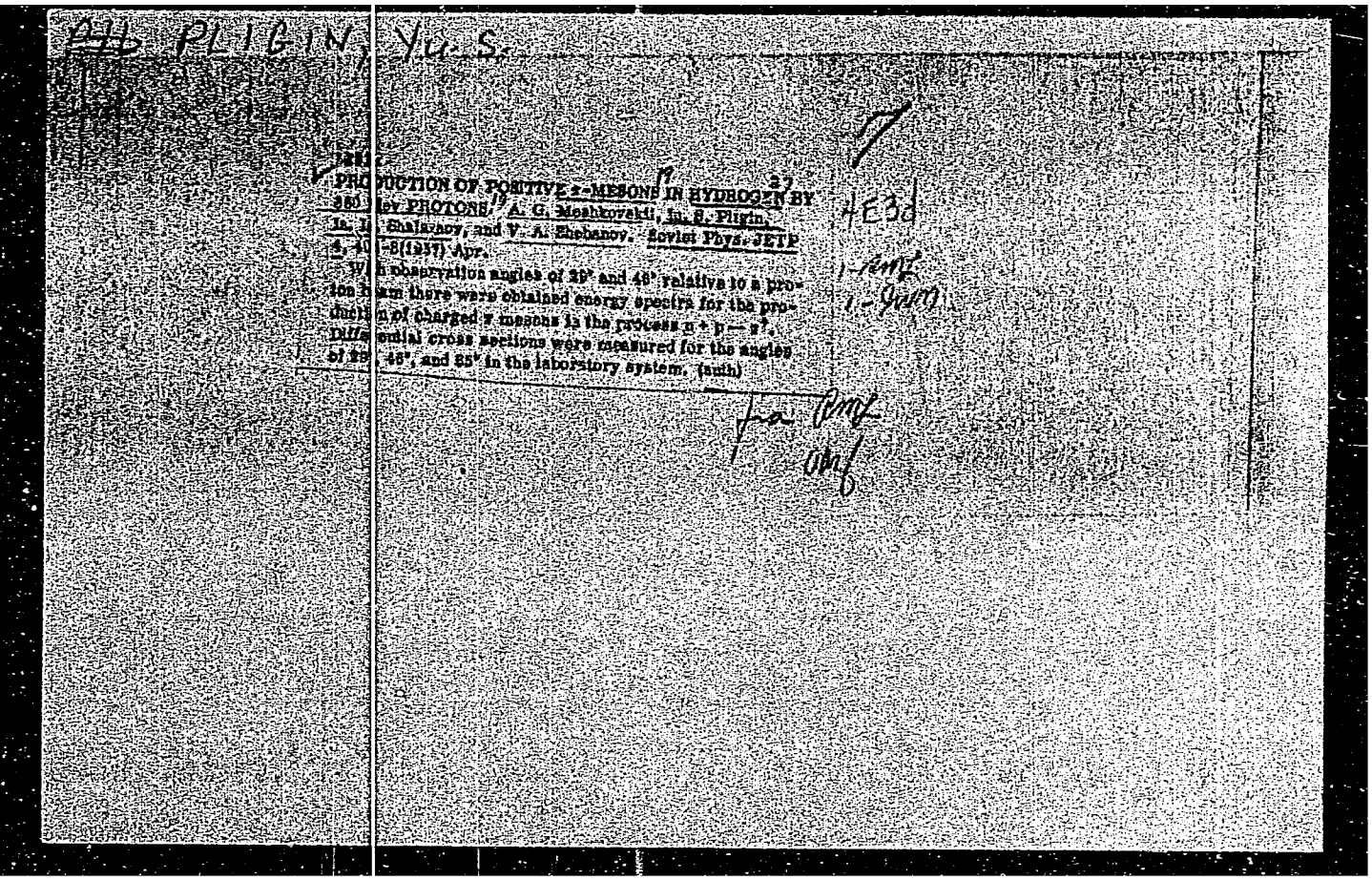

24 PLIGIN, Yu. S.

PRODUCTION OF POSITIVE π-MESONS IN HYDROGEN BY PHOTONS. A. G. Meshkovskii, Yu. S. Pligin, Shalaevoy, and V. A. Shebanov. Soviet Phys.: JETP -8(1937) Apr.

...h observation angles of 39° and 48° relative to a pro... ...am there were obtained energy spectra for the pro... ...duction of charged π mesons in the process $\pi + p \rightarrow \pi^+$. ...ential cross sections were measured for the angles ... of 39°, 48°, and 85° in the laboratory system. (auth)

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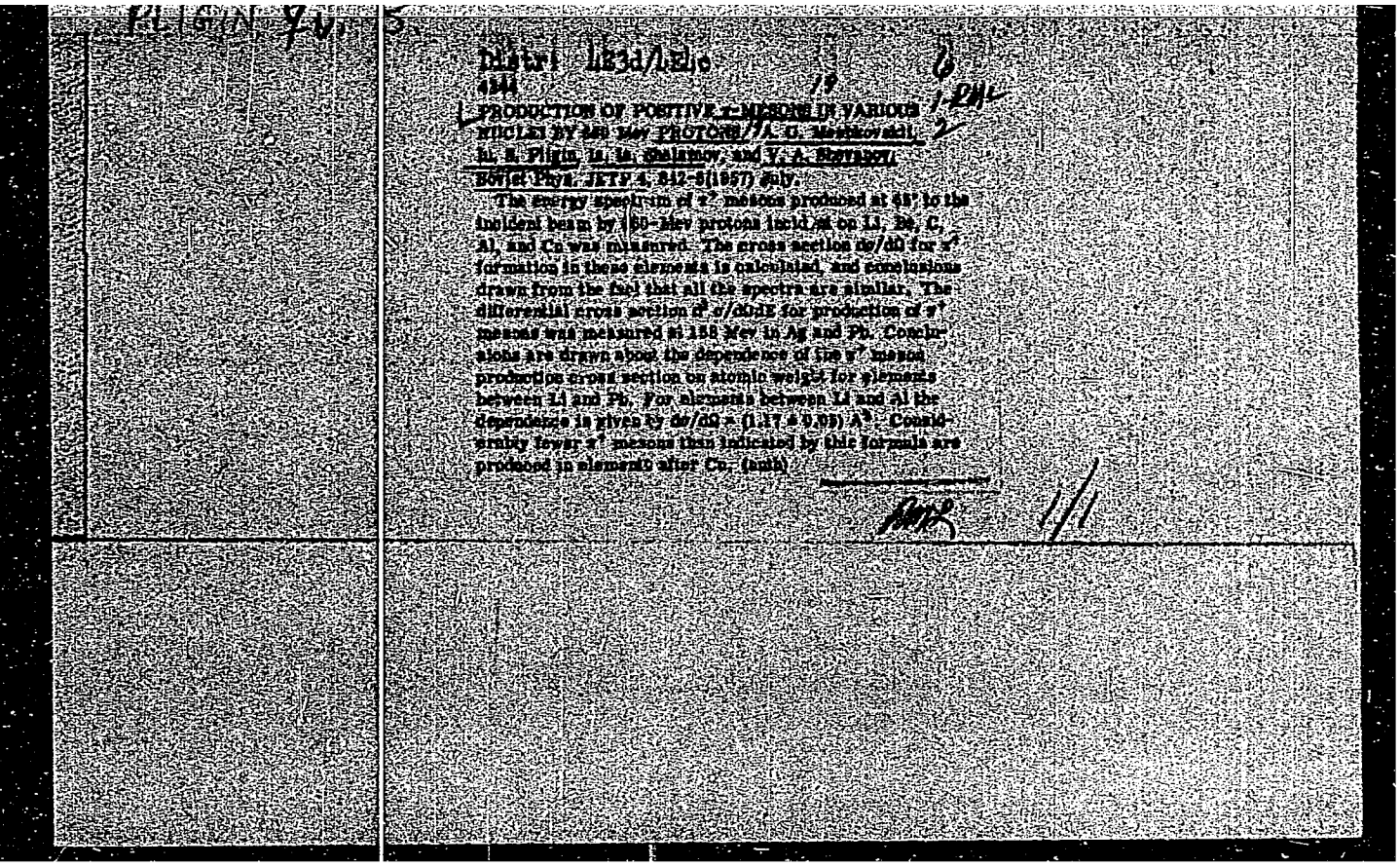

PRODUCTION OF POSITIVE π-MESONS IN VARIOUS NUCLEI BY 660 Mev PROTONS. V. G. Makovetskii, Yu. S. Pilipp, Yu. Ya. Shalamov, and Y. A. Shcherbi. Soviet Phys. JETP 4, 842-5(1957) July.

The energy spectrum of π^+ mesons produced at 45° to the incident beam by 660-Mev protons incident on Li, Be, C, Al, and Cu was measured. The cross section $d\sigma/d\Omega$ for π^+ formation in these elements is calculated, and conclusions drawn from the fact that all the spectra are similar. The differential cross section $d^2\sigma/d\Omega dE$ for production of π^+ mesons was measured at 158 Mev in Ag and Pb. Conclusions are drawn about the dependence of the π^+ meson production cross section on atomic weight for elements between Li and Pb. For elements between Li and Al the dependence is given by $d\sigma/d\Omega \propto (1.17 \pm 0.03)\ A^{\frac{2}{3}}$. Considerably fewer π^+ mesons than indicated by this formula are produced in elements after Cu. (auth)

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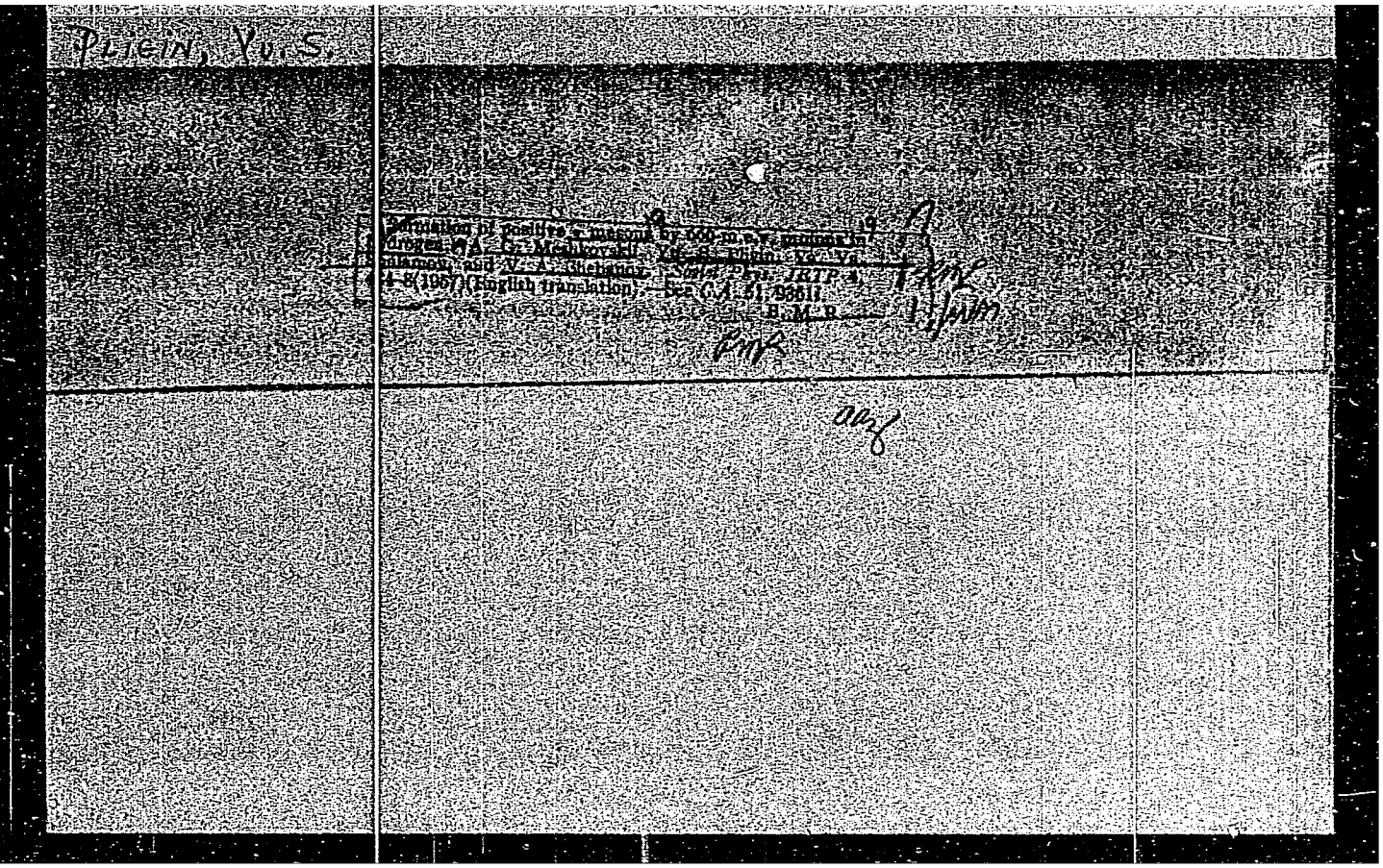

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLIGIN, Yu.S.

AUTHOR MESHKOVSKIY, A.G., PLIGIN, Yu.S., SHALAMOV, YA.YA., SHEBANOV, V.A. 56-6-9/56

TITLE Creation of π-Mesons on Zero Isotopic Spin Particles. (Obrazovaniye π-mezonov na yadrakh s izotopicheskim spinom nul' Russian)

PERIODICAL Zhurnal Eksperim. i Teoret.Fiziki,1957,Vol 32,Nr 6,pp 1328-1334 (U.S.S.R.)

ABSTRACT For an angle of observation of 45° the present paper determines the energy spectra and the differential production cross sections of positive and negative pions on deuterium as well as the production cross sections of negative pions on carbon.In addition to the results obtained by Poroshkin and Tyapkin the necessary data for the comparison of experimental results with the relation $\sigma^+ + \sigma^- = 2\sigma^0$ was in this way obtained.Here σ^+, σ^- and σ^0 denote the total or differential cross sections of the production of positive, negative, and neutral mesons respectively.Measurements were carried out on the exterior proton bundle of the synchrocyclotron of the United Institute for Nuclear Research.The measuring method and the apparatus have already been described in some of the author's previous works. Results obtained by measuring the energy spectra of positive and negative mesons which were produced by 660 MeV protons on deuteriums and carbon at an angle of observation of 45°, are shown together in a table.A further table contains the differential cross sections of the production of positive and negative mesons. The he-

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PLIGIN, Yu. S.

L0745

S/120/62/000/004/011/047
E140/E420

AUTHORS: Vladimirskiy, V.V., Koshkarev, D.G., Onosovskiy, K.K., Smolyankina, T.G., Smirnitskiy, V.A., Danil'tsev, Ye.N., Lazarev, N.V., Lapitskiy, Yu.Ya., Pligin, Yu.S., Batalin, V.A.

TITLE: The ion guide and beam-introduction system of the proton synchrotron

PERIODICAL: Pribory i tekhnika eksperimenta, no.4, 1962, 70-75

TEXT: From experimental work on the 4 Mev electrostatic generator used for beam injection, it was found that the diameter of the matched beam in the accelerator chamber would be not less than about 25 mm. The injection system was therefore designed to use plane condensers instead of slot condensers. As the phase volume of the beam was four times greater than expected, the focusing was strengthened by the use of quadrupole lenses. The beam introduction system is shown in Fig.2, where $C_{1,2,3}$ are condensers. C_1 is constructed from stainless steel plates, ℓ = 600 mm, h = 35 mm, bent to a radius of 4000 mm, V = 80 kV, ω = 171 mr, $\Delta V/V = 1.5 \times 10^{-3}$.

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C_2 has ℓ = 220 mm, h = 20 mm, V = 62 kV, ω = 85 mr and $\Delta V/V = 2.2 \times 10^{-3}$. C_3 has ℓ = 220 mm, h = 80 mm, V = 56 kV, ω = 9.6 mr, $\Delta V/V = 1 \times 10^{-2}$, where ℓ is length of the plates, h is the distance between them, ω is the angle through which the beam is bent and $\Delta V/V$ is the required stability. Calculation on the design of the system and its adjustment are given, in particular design details are presented on the first condenser C_1, the electrostatic quadrupole lenses, the ion guide and the magnetic quadrupole lenses. The electrostatic quadrupole lens consists essentially of four stainless steel plates with a hyperbolic profile and the magnetic quadrupole lens is calculated for a gradient of 350 Oe/cm and a length of 15 cm with a magnetic aperture of 60 mm. There are 12 figures.

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki GKAE (Institute of Theoretical and Experimental Physics GKAE)

SUBMITTED: March 31, 1962
Card 2/3

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KUZ'MIN, A.A.; KUROCHKIN, S.S.; KISELEV, Yu.S.; MAMAYEV, V.A.; PLIGIN, Yu.S.; CHERNOV, P.S.

System for determining the position of a proton beam. Prib. i tekh. eksp. 7 no.4:126-131 Jl-Ag '62. (MIRA 16:4)

1. Institut teoreticheskoy i eksperimental'noy fiziki Gosudarstvennogo komiteta po ispol'zovaniyu atomnoy energii SSSR.
(Particle accelerators) (Protons)

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40765

S/120/62/000/004/046/047
E039/E420

24,6730

AUTHORS: Vladimirskiy, V.V., Barabash, L.Z., Pligin, Yu.S., Veselov, M.A., Talyzin, A.N., Tarasov, Ye.K., Kuz'min, A.A.

TITLE: Measurement of the frequency of transverse oscillation of the beam of the 7 Gev proton synchrotron

PERIODICAL: Pribory i tekhnika eksperimenta, no.4, 1962, 245-247

TEXT: Periodic oscillations of the centre of gravity of separate bunches in the proton beam are observed with the aid of the signal electrodes used for determining the beam position. The signals are amplified with a wide band amplifier and observed on a double beam oscillograph using photographic recording. At 0.5 m sec after injection transverse oscillations connected with small initial oscillations of the beam at the moment of injection are observed. These transverse oscillations decay rapidly in 2 to 3 msec. The basic measurements were therefore made by artificially exciting oscillations by applying a transverse electric field ε = 1 to 1.5 KV/cm over a length of $\simeq$20 cm for a time of 4 to 10 μ sec. The amplitude of oscillation of the beam in one

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

40766

24,6800.

S/120/62/000/004/047/047
E039/E420

AUTHORS: Vladimirskiy, V.V., Gol'din, L.L., Pligin, Yu.S., Veselov, M.A., Talyzin, A.N., Tarasov, Ye.K., Koshkarev, D.G., Lapitskiy, Yu.Ya., Barabash, L.Z. Kleopov, I.F., Lebedev, P.I., Kuz'min, A.A., Batalin, V.A., Onosovskiy, K.K., Uvarov, V.A., Vodop'yanov, F.A.

TITLE: Adjustment of the acceleration regime of the 7 Gev proton synchrotron

PERIODICAL: Pribory i tekhnika eksperimenta, no.4, 1962, 248-255

TEXT: In order to establish the optimum parameters for programming the control frequency the intensity, position, and frequency and amplitude of transverse oscillation of the beam is measured in three stages: (1) during the first revolution, (2) with a circulating beam and (3) with acceleration. For measurements on the first revolution long afterglow scintillation screens are used which are either observed visually or by means of a television camera. The screens are placed in the sections between magnet blocks; 15 in the initial part and 10 in the final part of the chamber. It is shown that the orbit does not

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L 43087-65 EWT(m)/EWA(w)-2/EWA(m)-2 Pab-10/Pt-7 IJP(c) GS

ACCESSION NR: AT5007917 S/0000/64/000/000/0137/0145

39

AUTHOR: Barabash, L. Z.; Veselov, M. I.; Gol'din, L. L.; Zenkevich, P. R.; 38
Pligin, Yu. S.; Sivkov, Yu. P.; Talyzin, A. N.; Shegolev, V. A. B+1

TITLE: Survey report: operation of the 7-Gev proton synchrotron of the ITEF 19

SOURCE: International Conference on High Energy Accelerators. Dubna, 1963. Trudy. Moscow, Atomizdat, 19[illegible]4, 137-145

TOPIC TAGS: high energy accelerator

ABSTRACT: Operation of the 7-Gev accelerator for the period from September 1962 to May 1963 is discussed. The accelerator was run continuously from 9 a.m. Tuesday to 8 a.m. Saturday, i.e. 95 hours a week. On Saturday and Monday, preventive maintenance operations are carried out on the magnet and experimental rooms and on the accelerator itself. During the indicated period, the accelerator produced beams for physics experiments during 32% of the operating time and was used for 21% of the time for investigative studies on itself. Thus, the full useful time represented 53% of the calendar time. As for the physics experiments, the operations were directed mainly on two or three targets; here, the particles were distributed among three or four installations working independently. In the case of the

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ACCESSION NR: AT5007917

investigations on the accelerator itself, studies were made on the various operational conditions, the form and behavior of the equilibrium orbit, the frequencies of betatron oscillations, the entrapment of particles during acceleration, the effectiveness of fast and slow targets, methods of operating on several targets, etc. At the beginning of the indicated period, the frequency of recurrence was 10 cycles a minute. In mid January it increased to 12 cycles a minute, and at the present time work is being conducted on enhancing it further. The forms of the operating magnetic cycle are discussed. The main work at present is conducted in the case of the trapezoidal form, since introduction of the flat portion sharply enhances the mean power and forces a lowering of the frequency of recurrence of cycles. Transition to the trapezoidal cycle is effected by regulation of the excitation current in the main generator. In the case of the triangular form of the cycle, the current in the magnetic blocks increases linearly for 1.57 seconds from 0 to 2.4 kiloamperes. The inverter state is held for 0.78 second. The variation of the mean (averaged over a week) current strength of the beam of accelerated particles for the indicated period is discussed. The observed beam intensity (about $1.5 \cdot 10^{10}$ particles per pulse) is determined by the main injector, which injects $(7-8) \cdot 10^{10}$ particles into the accelerator. Work is going on at present to increase the number of injected particles and also the coefficient of capture. The

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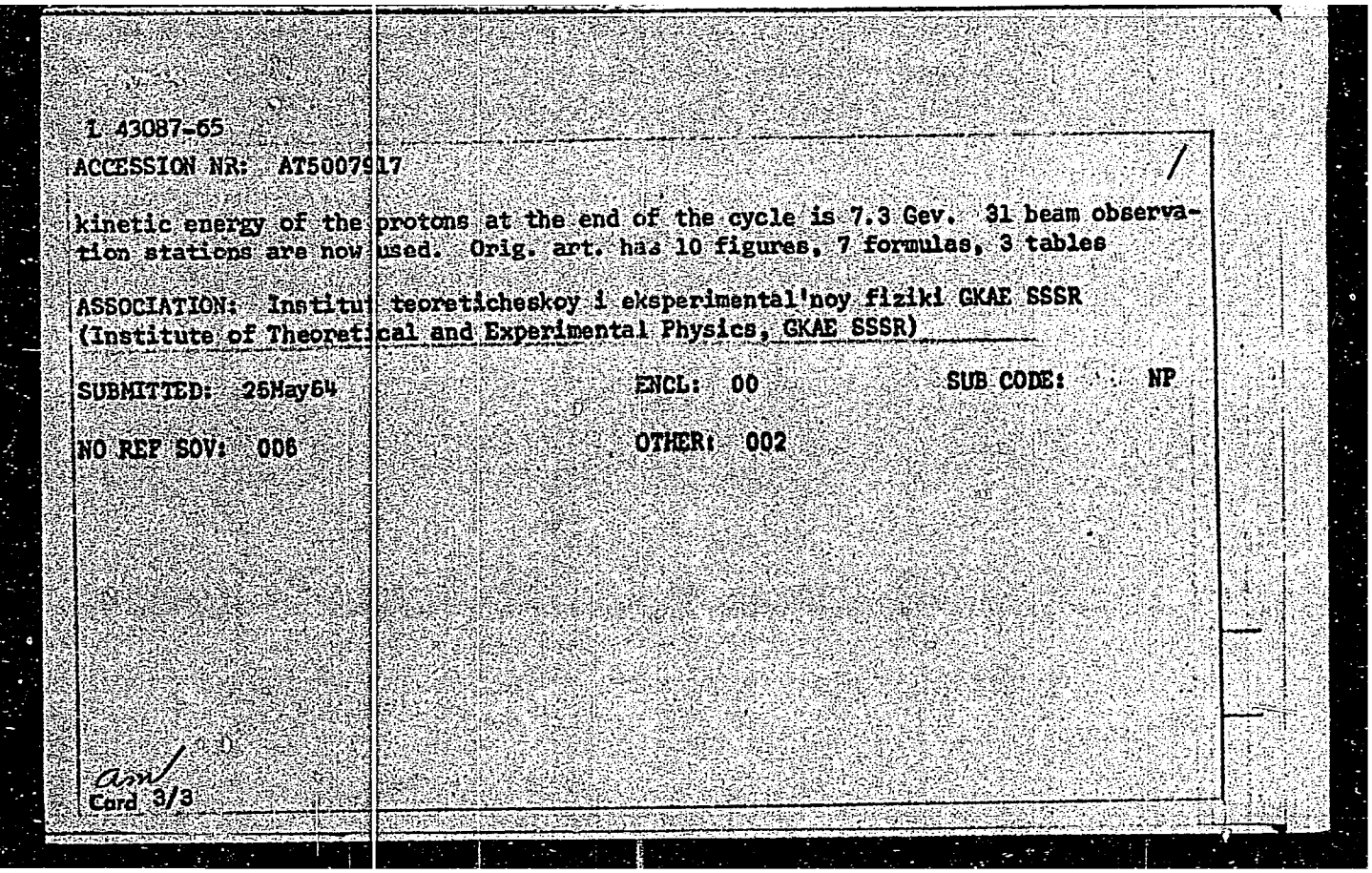

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ACCESSION NR: AT5007917

kinetic energy of the protons at the end of the cycle is 7.3 Gev. 31 beam observation stations are now used. Orig. art. has 10 figures, 7 formulas, 3 tables

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki GKAE SSSR (Institute of Theoretical and Experimental Physics, GKAE SSSR)

SUBMITTED: 26May64 ENCL: 00 SUB CODE: NP

NO REF SOV: 006 OTHER: 002

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VLADIMIRSKIY, V.V.; GOL'DIN, L.L.; PLIGIN, Yu.S.; VESELOV, M.A.; TALYZIN, A.N.; TARASOV, Ye.K.; KOSHKAREV, D.G.; LAPITSKIY, Yu.Ya.; BARABASH, L.Z.; KLEOPOV, I.F.; LEBEDEV, P.I.; KUZ'MIN, A.A.; BATALIN, V.A.; ONOSOVSKIY, K.K.; UVAROV, V.A.; VODOP'YANOV, F.A.

Adjustment of acceleration in the 7 bev. proton synchrotron. Prib. i tekh. eksp. 7 no. 4:248-255 Jl-Ag '62. (MIRA 16:4)

1. Institut teoreticheskoy i eksperimental'noy fiziki Gosudarstvennogo komiteta po ispol'zovaniyu atomnoy energii SSSR.

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VLADIMIRSKIY, V.V.; KOSHKAREV, D.G.; ONOSOVSKIY, K.K.; SMOLYANINA, T.G.; SMIRNITSKIY, V.A.; DANIL'TEV, Ye.N.; LAZAREV, N.V.; LAPITSKIY, Yu.Ya.; PLIGIN, Yu.S.; BATALIN, V.A.

Ion guide and beam injection system in a proton synchrotron. Prib. i tekh. eksp. 7 no.4:70-75 Jl-Ag '62. (MIRA 16:4)

1. Institut teoreticheskoy i eksperimental'noy fiziki Gosudarstvennogo komiteta po ispol'zovaniyu atomnoy energii SSSR. (Synchrotron)

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PLIGINA, D.B.

Geology of the Akatuy ore zone. Trudy IGEM no.83:48-64 '63. (MIRA 16:11)

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PLIGINA, G.P.; SAVADSKAYA, A.Ye.

Complex ore deposit in a shale-carbonate formation. Trudy VITR no.4:277-283 '61. (MIRA 14:9)

(Ore deposits)

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SOV/137-57-11-22115 D

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 11, p 206 (USSR)

AUTHOR: Pliginskaya, L.V.

TITLE: On Electrolytic Deposition of Nickel From Sulfate Solutions (K voprosu elektroosazhdeniya nikelya iz sernokislykh rastvorav)

ABSTRACT: Bibliographic entry on the Author's dissertation for the degree of Candidate of Technical Sciences, presented to the In-t metallurgii, AN SSSR (Institute of Metallurgy, USSR Academy of Sciences), Moscow, 1957

ASSOCIATION: In-t metallurgii, AN SSSR (Institute of Metallurgy, USSR Academy of Sciences), Moscow

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PLIGINSKAYA, L.V. Cand Tech Sci -- (diss) "Concerning electrolytic ~~precipitation~~ plating of nickel from sulfuric acid solutions." Mos,1957. 16 pp with ~~diagrams~~ graphs 20 cm. (Acad Sci USSR. Inst of Metallurgy im Baykov.) 100 copies. (KL, 23-57, 113)

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Pliginskaya, L.V.

137-1957-12-23472

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 92 (USSR)

AUTHORS: Pliginskaya, L. V., Chizhikov, D. M.

TITLE: Investigation of the Cathodic Polarization of Nickel in Sulfate Solutions (Issledovaniye katodnoy polyarizatsii nikelya v sul'fatnykh rastvorakh)

PERIODICAL: Tr. In-ta metallurgii AN SSSR, 1957, Nr 1, pp 78-84

ABSTRACT: A presentation of the results of an investigation of the cathodic polarization during the precipitation of Ni from sulfate solutions as a function of the temperature, the pH of the solution, the concentration of the metal, and the presence of Cl ions in the electrolyte. The initial solution was prepared with highly purified electrolytic Ni (99.99 percent Ni). The cathodic polarization was measured at D = 20 - 400 a/m^2, while thick Ni precipitate was observed; the pH of the solution varied from 1 to 6. The greatest variation of the potentials was observed at a pH of 2.5 - 4.5 (140 mv out of 170 mv), whereas at a pH of 4.5 - 6.3 the change in polarization was rather small and constituted approximately 30 mv. The addition of 30 g/lit of Cl ion lowered the

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137-1957-12-23472

Investigation of the Cathodic Polarization of Nickel (cont.)

polarization by 20 mv. The influence of the NaCl on the extent of the polarization is more pronounced in the presence of boric acid. If no boric acid is present and the 30, 40, and 60 g/lit Nickel solutions are in the form of $NiSO_4$, the polarization of Ni diminishes with increasing concentration of Ni in the solution. Raising the concentration of Ni from 30 to 60 g/lit. at D=200 a/m^2, reduces the polarization by 30 mv. Adding 5 g/lit boric acid to a solution containing 50 g/lit of Ni, at a temperature of 60° and a pH of 5.7, increases the polarization by 25 mv; an addition of 20 g/lit boric acid, at D = 200 a/m^2, increases the cathodic polarization by 75 mv.

G. S.

1. Nickel-Cathodic polarization 2. Sulfate solutions-Applications

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AID Nr. 982-7 4 June

HIGH-PURITY CADMIUM (USSR)

Pliginskaya, L. V., and N. V. Skorduli. IN: Akademiya nauk SSSR. Institut metallurgii imeni A. A. Baykova. Trudy, no. 11, 1962, 65-70. S/509/62/000/011/002/019

Extraction of high-purity cadmium and refining of cadmium metal by electrolysis have been studied in cooperation with the Institute of Semiconductors and the Institute of Physical Problems, Academy of Sciences USSR. Bright, fine-grained cadmium deposits were obtained on the titanium cathode (platinum anode) from an electrolyte initially containing 200 to 250 g/l cadmium and 20 g/l sulfuric acid with a cathode current density of 50 to 60 amp/m^2. Spectral analysis of the melted deposit showed minute residues of such impurities as Cu, Pb, Ag, Si, Mg, Ca, Al, Ni, and Fe. These impurities should be removed prior to electrolysis; the Pb, Ag, Al, Fe, and Ni by precipitation with 2 g/l $F_2(SO_4)$, and the Cu either by extraction with dithizone or precipitation on cadmium sponge. Stress-relieved cadmium wire made of metal deposited

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AID Nr. 982-7 4 June

HIGH-PURITY CADMIUM [Cont'd] S/509/62/000/011/002/019

from a purified electrolyte had a residual resistivity $R_{4.2°K}:R_{273°K}$ of 0.00657 and $R_{1.6°K}:R_{273°K}$ of 0.000447. In refining the commercial-grade cadmium, the best results were obtained with double electrolysis: electrolysis with a soluble anode produced a Cd sponge which was dissolved in sulfuric acid; the solution was purified as above and used as the electrolyte. Spectral analysis of the refined cadmium showed that it does not contain any impurities except traces of Ca and Mg and 0.0002% Cu. The optimum electrolysis conditions are as follows: cathode current density, 50 to 60 amp/m^2; electrolyte temperature, 20 to 25°C; acidity, not less than 40 g/l; and cadmium concentration, not less than 50 g/l. In a hydrochloric acid solution the current density must be raised to 100-150 amp/m^2; cadmium refined in this manner has had approximately the same residual resistivity as above. [ND]

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PLIGINSKAYA, L.V.; SKORDULI, N.V.; Prinimal uchastiye USTINSKIY, B.Z.

Obtaining high-purity cadmium by the electrolysis of aqueous solutions. Trudy Inst. met. no.11:65-70 '62. (MIRA 16:5)
(Cadmium--Electrometallurgy)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLIGINSKAYA, L. V.

PLIGINSKAYA, L.V.; CHIZHIKOV, D.M.

Investigation of cathodic polarization of nickel in sulfate solutions. (MIRA 10:11)
Trudy Inst.met.AN SSSR no.1:78-84 '57.
(Nickel--Metallurgy) (Polarization (Electricity)) (Sulfates)

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CHIZHIKOV, David Mikhaylovich; GULYANITSKAYA, Zoya Feodos'yevna; GUROVICH, Natal'ya Aleksandrovna; KITLER, Igor' Nikolayevich; KREYNGAUZ, Bella Pavlovna; NOVOSELOVA, Valentina Nikolayevna; PLIGINSKAYA, Lyubov' Vladimirovna; USTINOVSKIY, Boris Zinov'yevich; KLIMOV, V.A., red. izd-va; LAUT, V.G., tekhn. red.

[Hydro- and electrometallurgy of sulfide alloys and mattes] Gidroelektrometallurgiia sul'fidnykh splavov i shteinov. Moskva, Izd-vo Akad. nauk SSSR, 1962. 204 p. (MIRA 15:9)

1. Chlen-korrespondent Akademii nauk SSSR (for Chizhikov). (Sulfides--Metallurgy) (Hydrometallurgy) (Electrometallurgy)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLIGINSKIY, V. G.

"From the Notebook of a Plant Physician," Zashchita Rastenii ot Vreditelei, vol. 7, no. 1-3, 1930, pp. 129-134. 421 D36

So: Sira- Si- 90- 53, 15 Dec. 1953

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

PLIGUNOV, O.S. [Plyhunov, O.S.], dots.

An institute decorated with the Order of Lenin; on the 60th anniversary of the Kiev Polytechnical Institute. Nauka i zhyttia 8 no.10:19-22 '58. (MIRA 13:4)

1. Direktor Kiyevskogo ordena Lenina politekhnicheskogo instituta.
(Kiev--Technical education)

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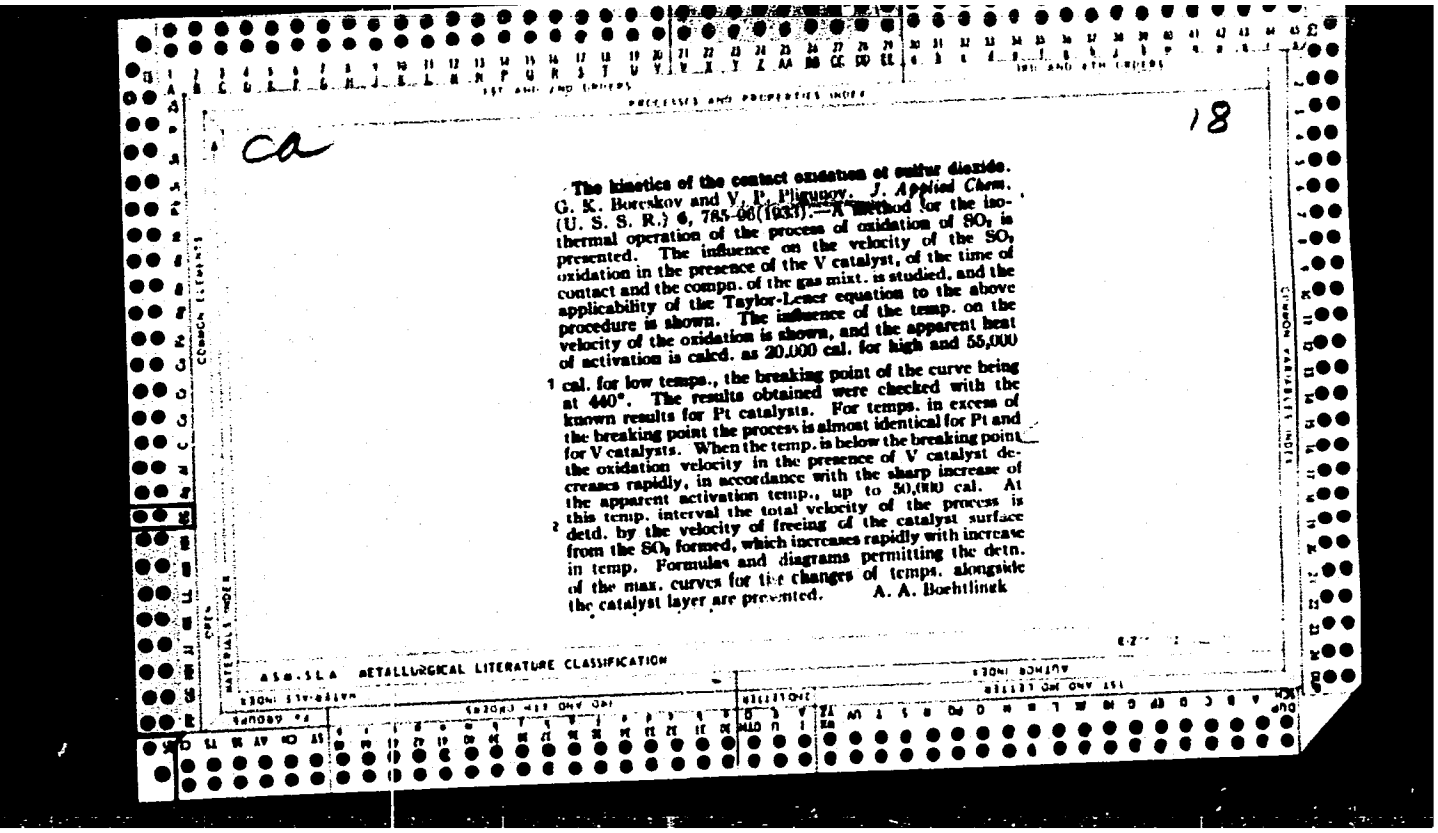

ca

18

The kinetics of the contact oxidation of sulfur dioxide. G. K. Boreskov and V. P. Pligunov. *J. Applied Chem.* (U. S. S. R.) 6, 785-96 (1933).—A method for the isothermal operation of the process of oxidation of SO_2 is presented. The influence on the velocity of the SO_2 oxidation in the presence of the V catalyst, of the time of contact and the compn. of the gas mixt. is studied, and the applicability of the Taylor-Lenez equation to the above procedure is shown. The influence of the temp. on the velocity of the oxidation is shown, and the apparent heat of activation is calcd. as 20,000 cal. for high and 55,000 cal. for low temps., the breaking point of the curve being at 440°. The results obtained were checked with the known results for Pt catalysts. For temps. in excess of the breaking point the process is almost identical for Pt and for V catalysts. When the temp. is below the breaking point the oxidation velocity in the presence of V catalyst decreases rapidly, in accordance with the sharp increase of the apparent activation temp., up to 50,000 cal. At this temp. interval the total velocity of the process is detd. by the velocity of freeing of the catalyst surface from the SO_3 formed, which increases rapidly with increase in temp. Formulas and diagrams permitting the detn. of the max. curves for the changes of temps. alongside the catalyst layer are presented. A. A. Boehtlingk

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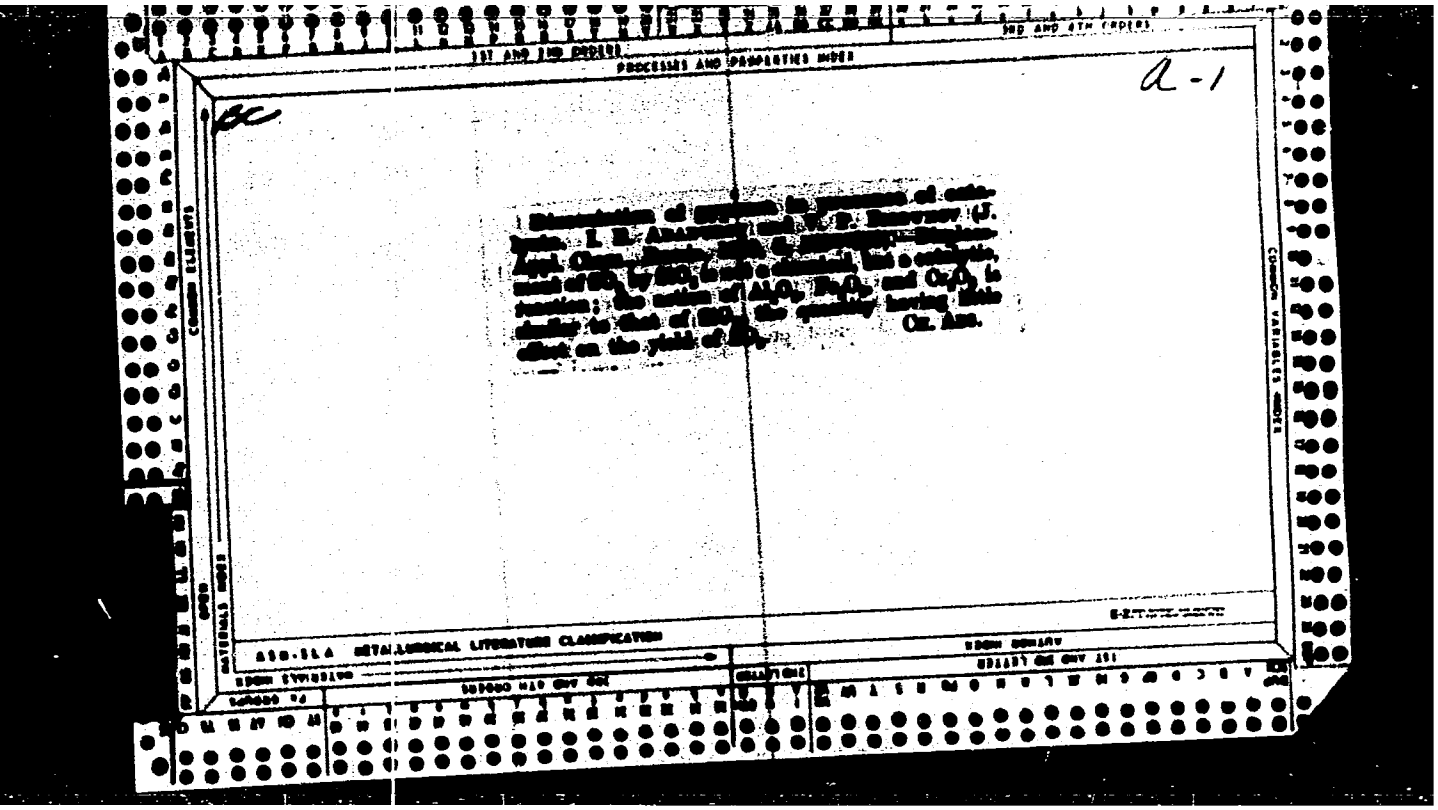

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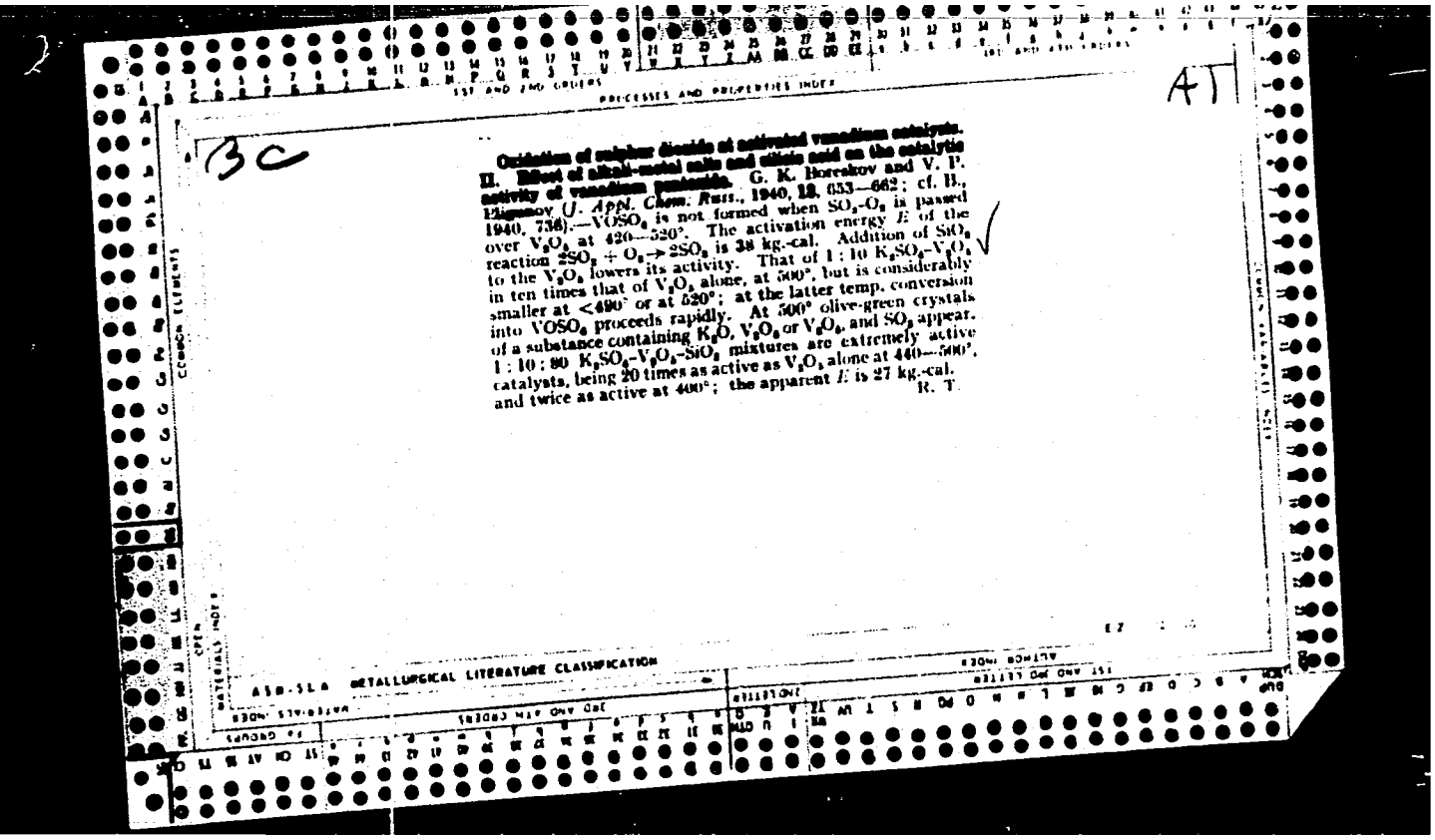

3C

ATI

Oxidation of sulphur dioxide at activated vanadium catalysts. II. Effect of alkali-metal salts and silicic acid on the catalytic activity of vanadium pentoxide. G. K. Boreskov and V. P. Ilyinov. *J. Appl. Chem. Russ.*, 1940, **13**, 653—662; cf. B., 1940, 738).—$VOSO_4$ is not formed when SO_2-O_2 is passed over V_2O_5 at 420—520°. The activation energy E of the reaction $2SO_2 + O_2 \rightarrow 2SO_3$ is 38 kg.-cal. Addition of SiO_2 to the V_2O_5 lowers its activity. That of 1 : 10 K_2SO_4-V_2O_5 in ten times that of V_2O_5 alone, at 500°, but is considerably smaller at <490° or at 620°; at the latter temp. conversion into $VOSO_4$ proceeds rapidly. At 500° olive-green crystals of a substance containing K_2O, V_2O_5 or V_2O_4, and SO_3 appear. 1 : 10 : 90 K_2SO_4-V_2O_5-SiO_2 mixtures are extremely active catalysts, being 20 times as active as V_2O_5 alone at 440—500°, and twice as active at 400°; the apparent E is 27 kg.-cal.

R. T.

A58-5L6 METALLURGICAL LITERATURE CLASSIFICATION

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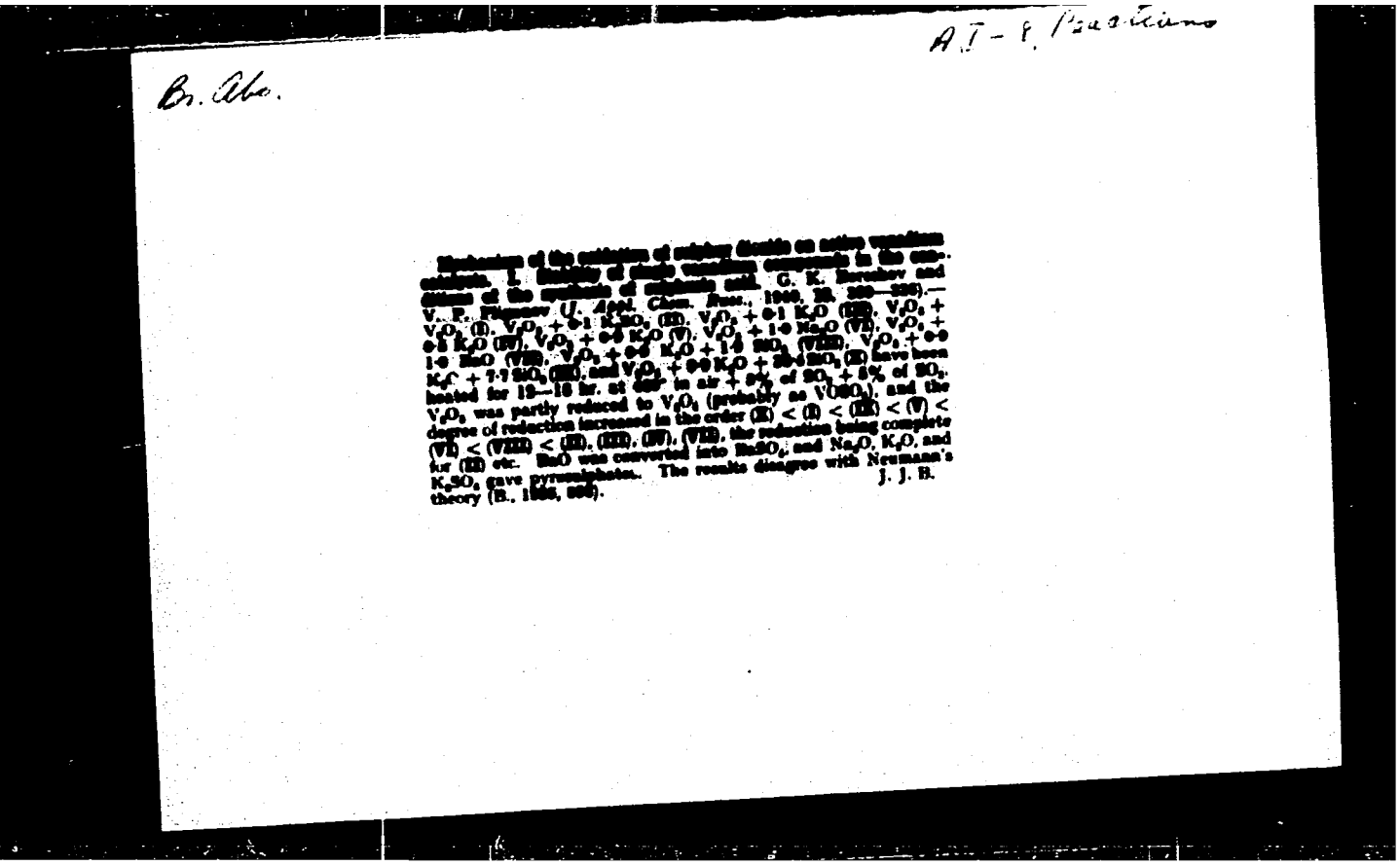
Br. Abs.

A. I - 8. Practicum



Reduction of the oxidation of sulphur dioxide on solid vanadium catalysts. I. Reduction of solid vanadium compounds in the course of the synthesis of sulphuric acid. G. K. Boreskov and V. P. Pisarev (J. Appl. Chem. Russ., 1940, 13, 333—338).—V_2O_5 (I), $V_2O_5 + 0{\cdot}1\ K_2SO_4$ (II), $V_2O_5 + 0{\cdot}1\ K_2O$ (III), $V_2O_5 + 0{\cdot}3\ K_2O$ (IV), $V_2O_5 + 0{\cdot}6\ K_2O$ (V), $V_2O_5 + 1{\cdot}0\ Na_2O$ (VI), $V_2O_5 + 1{\cdot}0\ BaO$ (VII), $V_2O_5 + 0{\cdot}6\ K_2O + 14\ SiO_2$ (VIII), $V_2O_5 + 0{\cdot}6\ K_2O + 7{\cdot}1\ SiO_2$ (IX), and $V_2O_5 + 0{\cdot}6\ K_2O + 28{\cdot}4\ SiO_2$ (X) have been heated for 12—18 hr. at 440° in air + 8% of SO_2 + 8% of SO_3. V_2O_5 was partly reduced to V_2O_4 (probably as $V(SO_4)_2$), and the degree of reduction increased in the order (X) < (I) < (III) < (V) < (VI) < (VIII) < (II), (IV), (IX), the reduction being complete for (III) etc. BaO was converted into $BaSO_4$, and Na_2O, K_2O, and K_2SO_4 gave pyrosulphates. The results disagree with Neumann's theory (B., 1933, 666). J. J. B.

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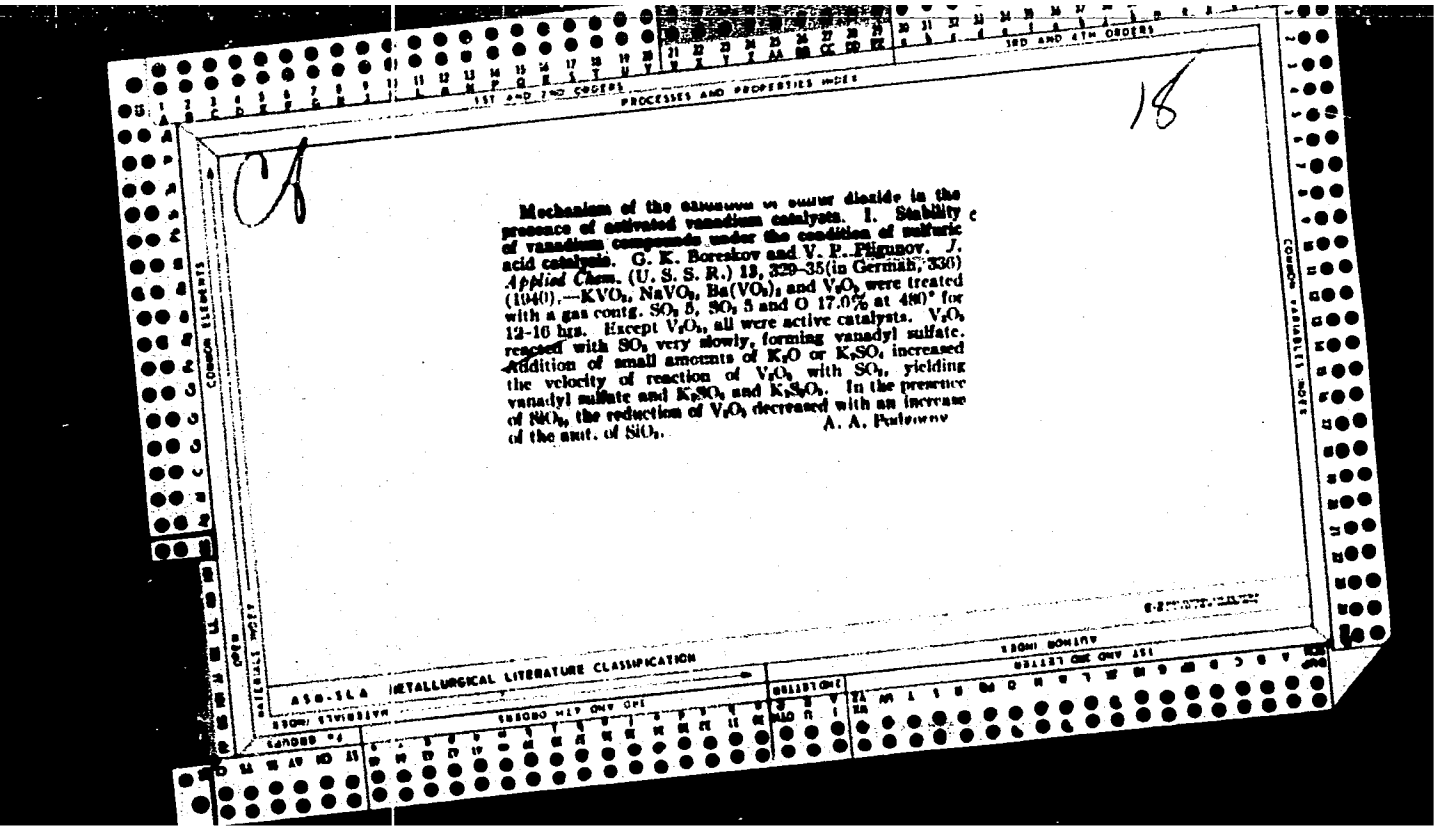

Mechanism of the catalytic oxidation of sulfur dioxide in the presence of activated vanadium catalysts. I. Stability of vanadium compounds under the condition of sulfuric acid catalysis. G. K. Boreskov and V. P. Plignov. *J. Applied Chem.* (U. S. S. R.) 13, 329-35(in German, 330) (1940).—KVO_3, $NaVO_3$, $Ba(VO_3)_2$ and V_2O_5 were treated with a gas contg. SO_2 8, SO_3 5 and O 17.0% at 480° for 12-16 hrs. Except V_2O_5, all were active catalysts. V_2O_5 reacted with SO_3 very slowly, forming vanadyl sulfate. Addition of small amounts of K_2O or K_2SO_4 increased the velocity of reaction of V_2O_5 with SO_3, yielding vanadyl sulfate and K_2SO_4 and $K_2S_2O_7$. In the presence of SiO_2, the reduction of V_2O_5 decreased with an increase of the amt. of SiO_2.

A. A. Balandin

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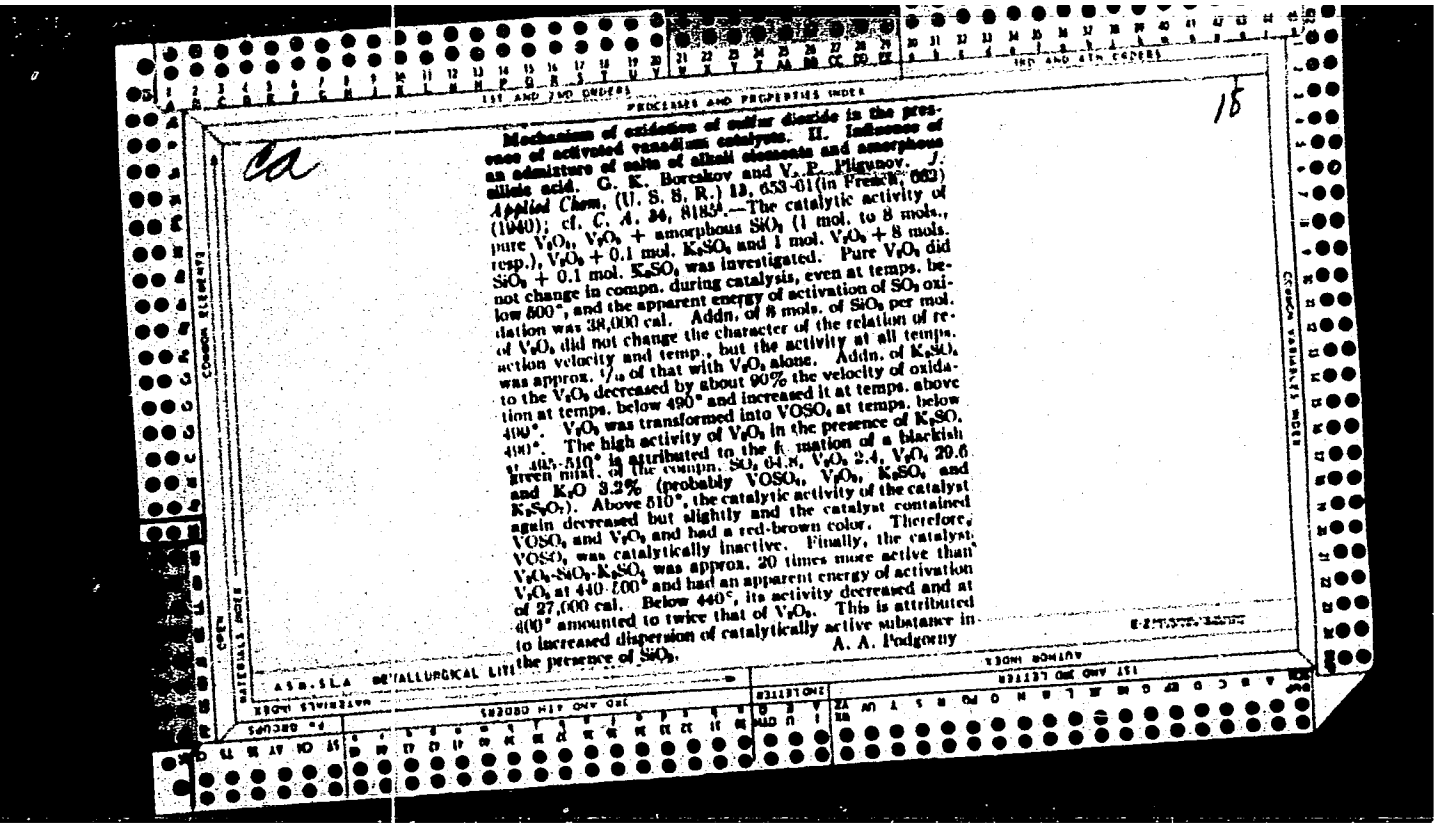

Mechanism of oxidation of sulfur dioxide in the presence of activated vanadium catalysts. II. Influence of an admixture of salts of alkali elements and amorphous silicic acid. G. K. Boreskov and V. P. Pigunov. *J. Applied Chem.* (U. S. S. R.) 13, 653-61 (in French, 662) (1940); cf. *C. A.* 34, 8185.—The catalytic activity of pure V_2O_5, V_2O_5 + amorphous SiO_2 (1 mol. to 8 mols., resp.), V_2O_5 + 0.1 mol. K_2SO_4 and 1 mol. V_2O_5 + 8 mols. SiO_2 + 0.1 mol. K_2SO_4 was investigated. Pure V_2O_5 did not change in compn. during catalysis, even at temps. below 500°, and the apparent energy of activation of SO_2 oxidation was 38,000 cal. Addn. of 8 mols. of SiO_2 per mol. of V_2O_5 did not change the character of the relation of reaction velocity and temp., but the activity at all temps. was approx. 1/10 of that with V_2O_5 alone. Addn. of K_2SO_4 to the V_2O_5 decreased by about 90% the velocity of oxidation at temps. below 490° and increased it at temps. above 490°. V_2O_5 was transformed into $VOSO_4$ at temps. below 490°. The high activity of V_2O_5 in the presence of K_2SO_4 at 485-510° is attributed to the formation of a blackish green mixt. of the compn. SO_3 64.8, V_2O_5 2.4, V_2O_4 29.6 and K_2O 3.2% (probably $VOSO_4$, V_2O_5, K_2SO_4 and $K_2S_2O_7$). Above 510°, the catalytic activity of the catalyst again decreased but slightly and the catalyst contained $VOSO_4$ and V_2O_5 and had a red-brown color. Therefore, $VOSO_4$ was catalytically inactive. Finally, the catalyst V_2O_5-SiO_2-K_2SO_4 was approx. 20 times more active than V_2O_5 at 440-500° and had an apparent energy of activation of 27,000 cal. Below 440°, its activity decreased and at 400° amounted to twice that of V_2O_5. This is attributed to increased dispersion of catalytically active substance in the presence of SiO_2.

A. A. Podgorny

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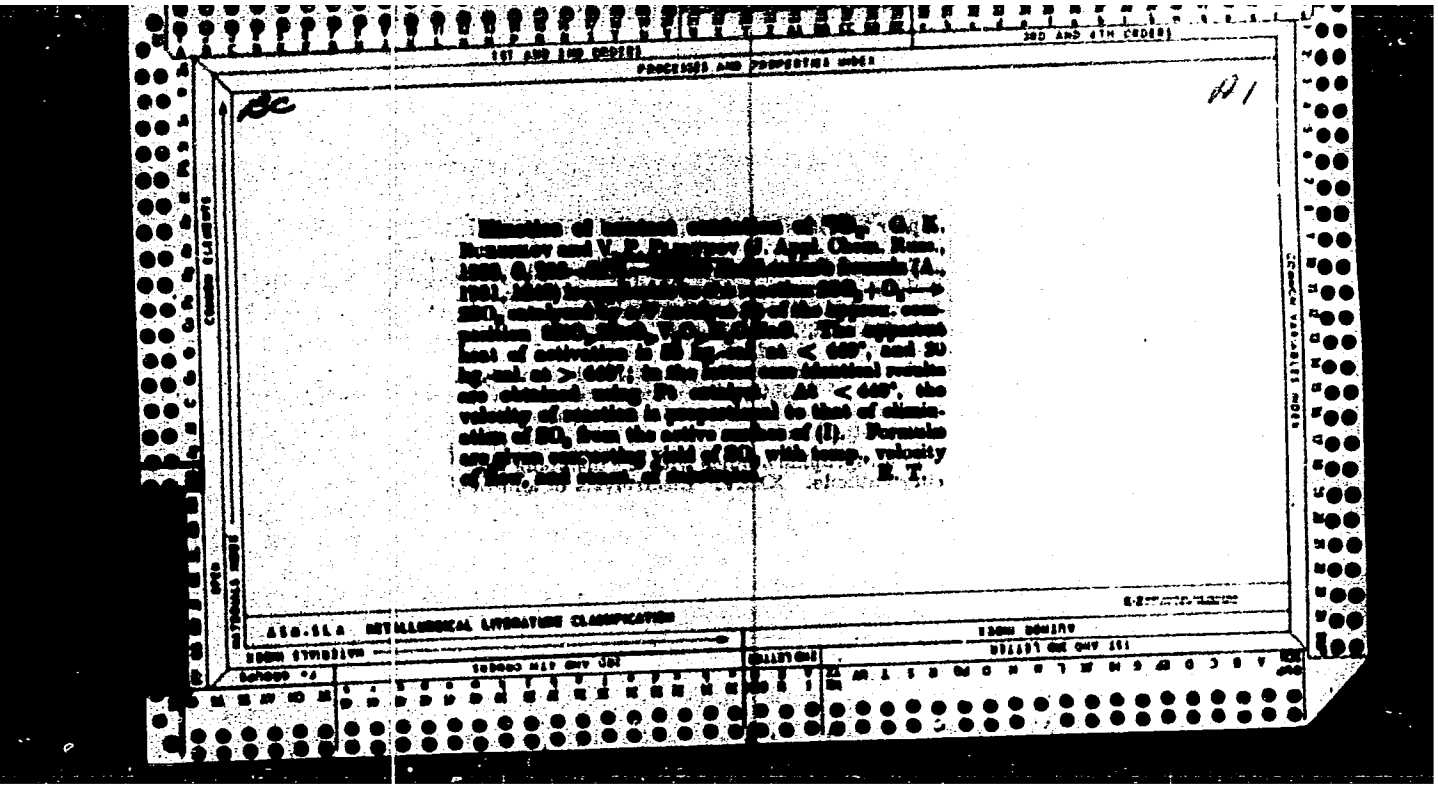

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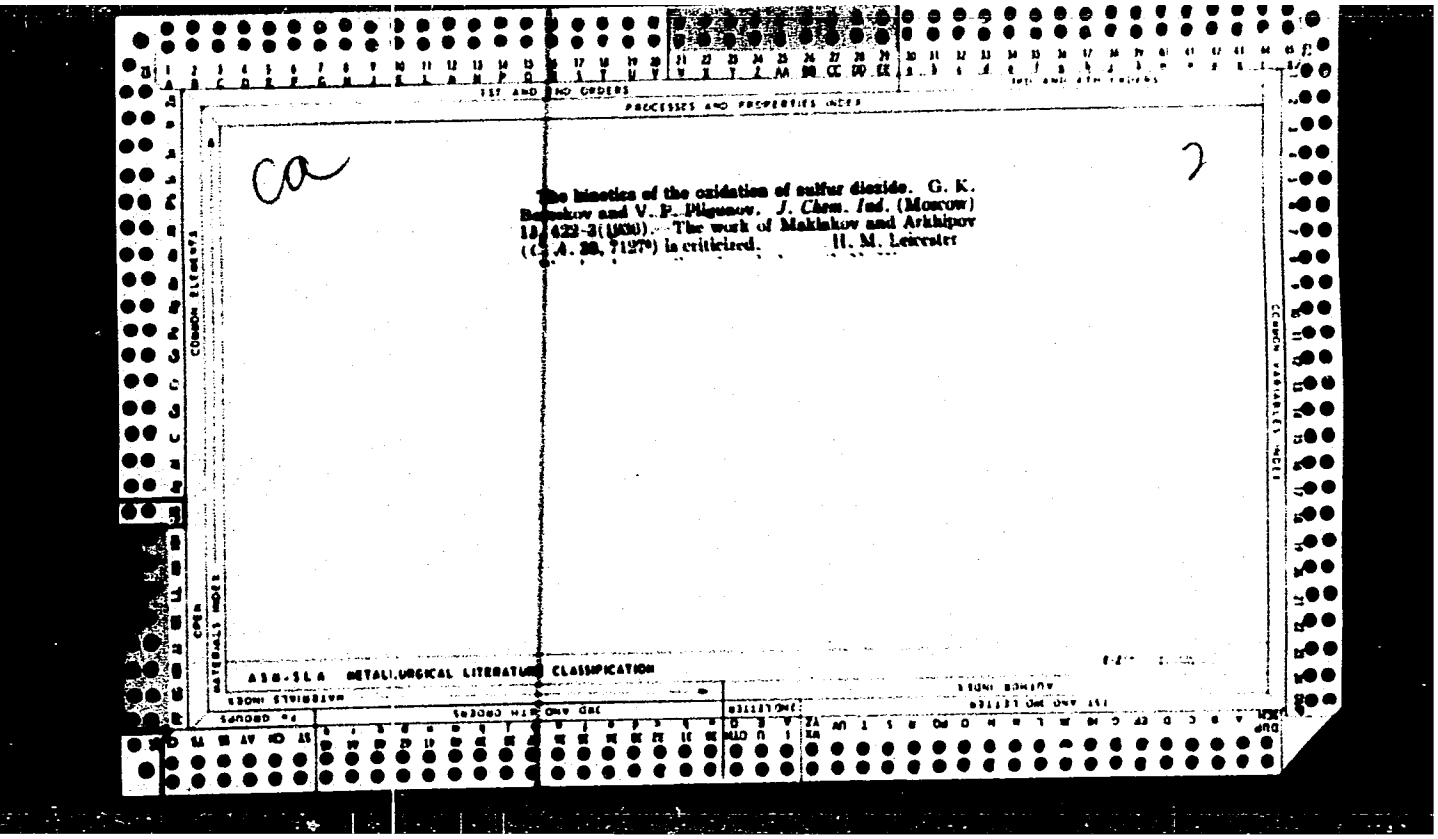

ca

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The kinetics of the oxidation of sulfur dioxide. G. K. Boreskov and V. P. Pliguzov. *J. Chem. Ind.* (Moscow) 13, 623-3 (1936). The work of Maklakov and Arkhipov (*C. A.* 28, 7127[9]) is criticized. H. M. Leicester

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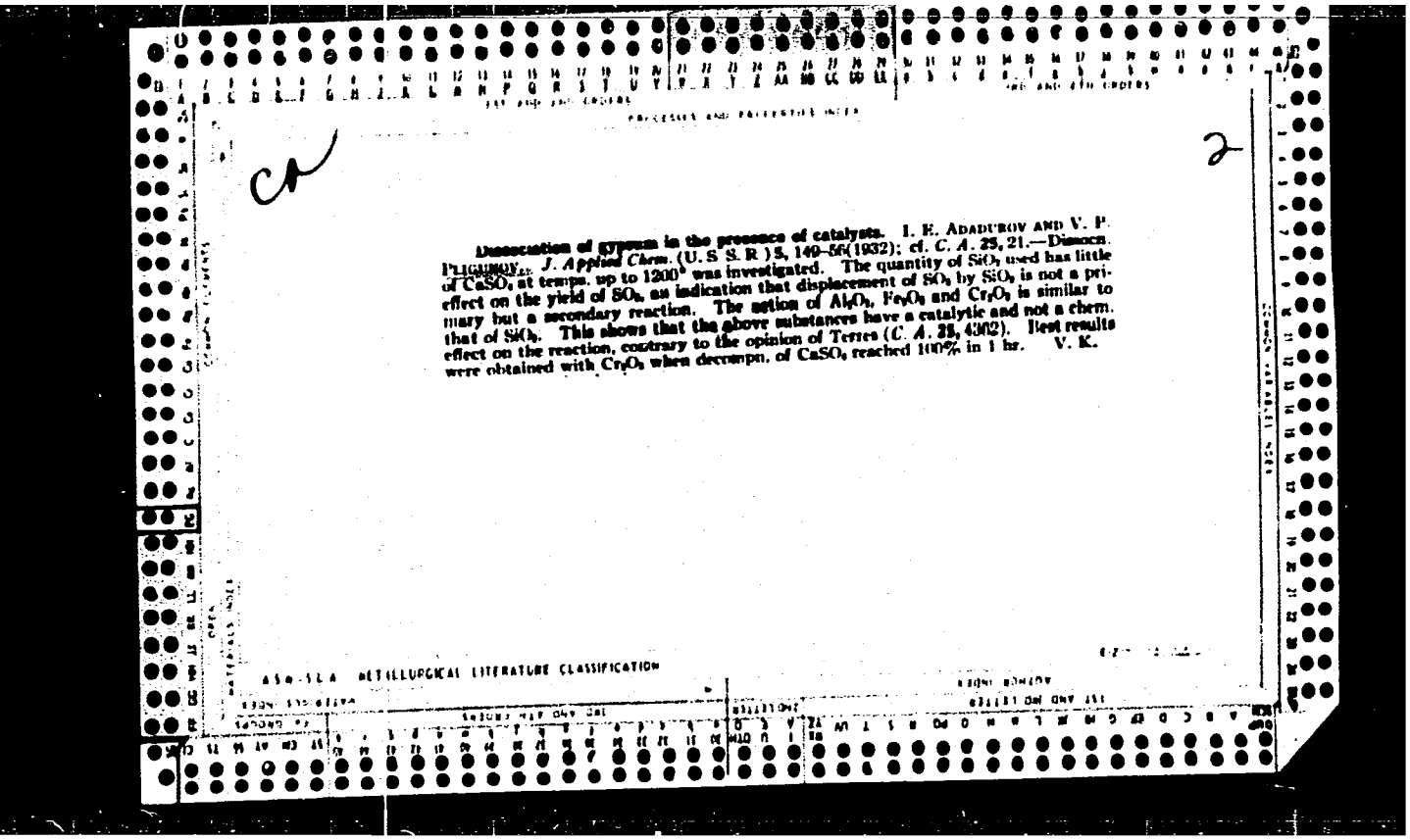

Dissociation of gypsum in the presence of catalysts. I. E. Adadurov and V. P. Pligunov. *J. Applied Chem.* (U. S. S. R.) 5, 149–56(1932); cf. *C. A.* 25, 21.—Dissocn. of $CaSO_4$ at temps. up to 1200° was investigated. The quantity of SiO_2 used has little effect on the yield of SO_3, as indication that displacement of SO_3 by SiO_2 is not a primary but a secondary reaction. The action of Al_2O_3, Fe_2O_3 and Cr_2O_3 is similar to that of SiO_2. This shows that the above substances have a catalytic and not a chem. effect on the reaction, contrary to the opinion of Terres (*C. A.* 25, 4302). Best results were obtained with Cr_2O_3 when decompn. of $CaSO_4$ reached 100% in 1 hr. V. K.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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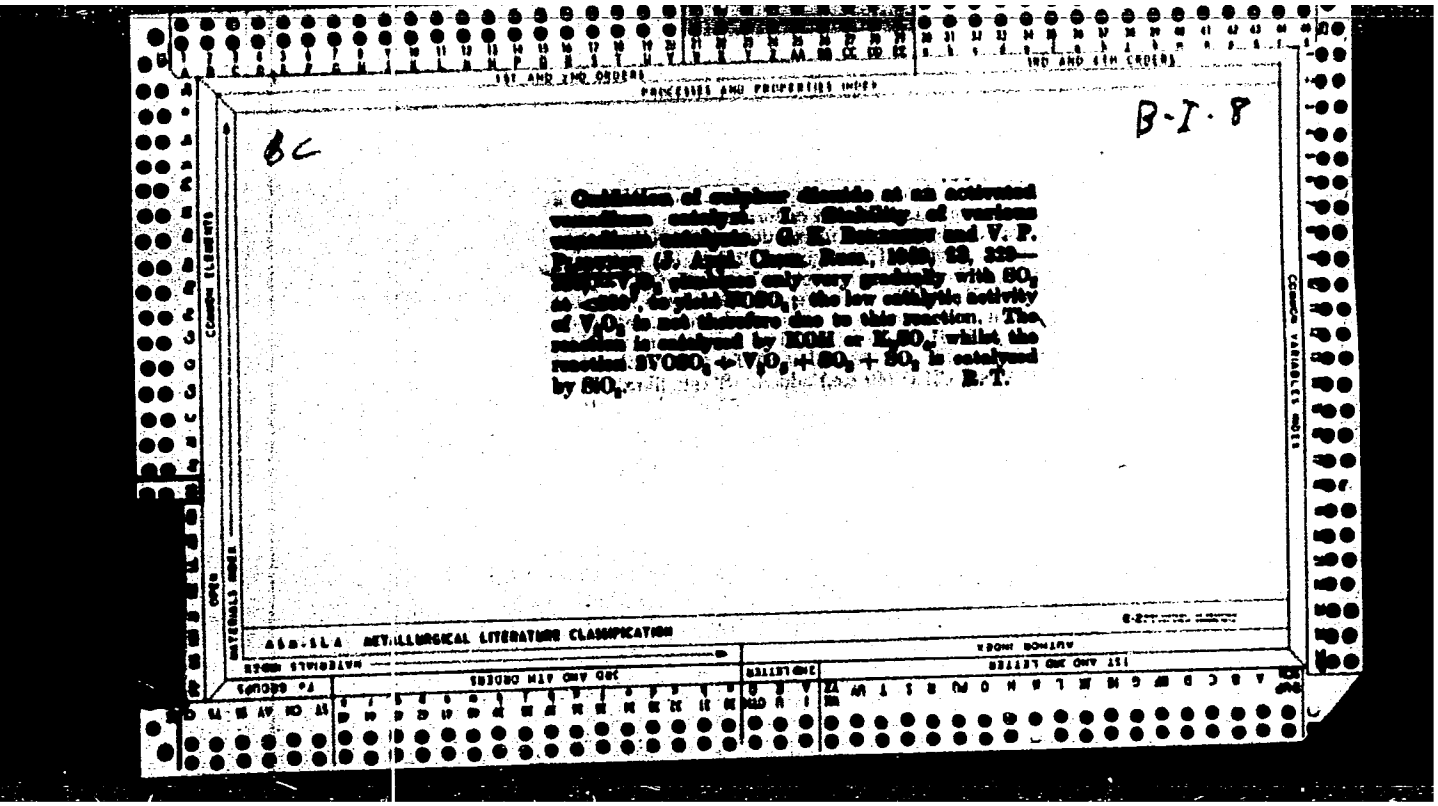

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PLIGUNETS, N., inzh.

Use of a construction pistol. Prom.stroi. i inzh.soor. 3 no.2: 61 Mr-Ap '61. (MIRA 15:3)
(Building machinery)

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L 20872-66
ACC NR: AP6011091 SOURCE CODE: CE/0006/65/000/007/0276/0279

43
B

AUTHOR: Provaznik, M. (Prague); Plihal, J. (Prague)

ORG: none

TITLE: Low-frequency long-distance transmission and modulation equipment 'NTZ'. Part 2

SOURCE: Nachrichtentechnik, no. 7, 1965, 276-279

TOPIC TAGS: signal transmission, signal modulation, radio receiver, electronic amplifier, pulse generator

ABSTRACT: Continuing the description presented in Part 1 of this series [no reference given], the following components of the equipment are described and illustrated by circuit diagrams: the channel receiver, the optional universal amplifier, and the square-pulse generator. The performance characteristics of the integrated system are discussed and the final hardware assembly is described. Orig. art has: 10 figures [JPRS]

SUB CODE: 09, 17 SUBM DATE: 10Aug64

Card 1/1 dda

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PLIHAL, J.

Standardized constructions for production line technique. p. 66.

(Sdelovaci Technika. Vol. 5, no. 3, Mar. 1957. Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.

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PAVLANSKY, R.; PLIHAL, V.; ULDRICH, J.

Paraarticular ossification & nephrolithiasis complicating basilar meningitis after tuberculous epididymitis. Cas. lek. cesk. 97 no.41: 1299-1303

1. Vyzkumny ustav tuberkulosy v Praze, reditel doc. dr. R. Krivinka, Ortopedicke oddeleni nemocnice v Praze 8-Bulovka, prednosta dr. R. Pavlansky, R. P., Praha-Bulovka.

(MENINGITIS, compl.
nephrolithiasis & paraarticular ossification of hip complicating basilar meningitis after tuberc. epididymitis (Cz))
(KIDNEYS, calculi
complicating basilar meningitis after tuberc. epididymitis (Cz))
(HIP, dis.
ossification, paraarticular, complicating basilar meningitis after tuberc. epididymitis (Cz))
(EPIDIDYMITIS, compl.
basilar meningitis complicated by nephrolithiasis & paraarticular ossification of hip after tuberc. epididymitis (Cz))
(TUBERCULOSIS, MALE GENITAL, compl.
same)

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L 53736-65 EPF(c)/EPR/EPA(s)-2/EWT(m)/EWP(l)/EWP(b)/EWP(e) Pq-4/Pr-4/Ps-4/Pt-7
WW/WH

ACCESSION NR: AP5015562 UR/0286/65/000/008/0119/0119
666.189.211

AUTHOR: Shkol'nikov, Ya. A.; Polik, B. M.; Karakhanidi, N. G.; Ivanov, P. K.; Bober, E. I.; Ulybyshe[illegible], V. V.; Alen'kin, A. T.; Bugrova, N. N.; Simakov, D. P.; Shchipin, I. Ye.; Gur'yev[illegible], Yu. N.; Yefimova, M. I.; Nechayeva, Ye. S.; Yesilkina, K. N.; Ivanova, A. I.; Dayn, E. P.; Nabatov, V. G.; Novoyevskaya, Ye. A.; Kukin, Ye. B.; Balashov, V. N.; Gamza, L. B.

TITLE: Glass for glass fibers. Class 32, No. 170369

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 8, 1965, 119

TOPIC TAGS: glass, glass fiber

ABSTRACT: An Author Certificate has been issued for a glass suitable for making glass fibers. To increase chemical durability, to prevent corrosion of alloys of aluminum and other light metals, and to improve processability, the glass is formulated to contain: 58—63% SiO_2, 2—4% B_2O_3, 6—8% Al_2O_3, 0.5—1.5% F_2O_3, 4—6% ZrO_2, 6—8% CaO, 12—13% Na_2O, and 1.5—2% K_2O. [SM]

ASSOCIATION: none

Card 1/2

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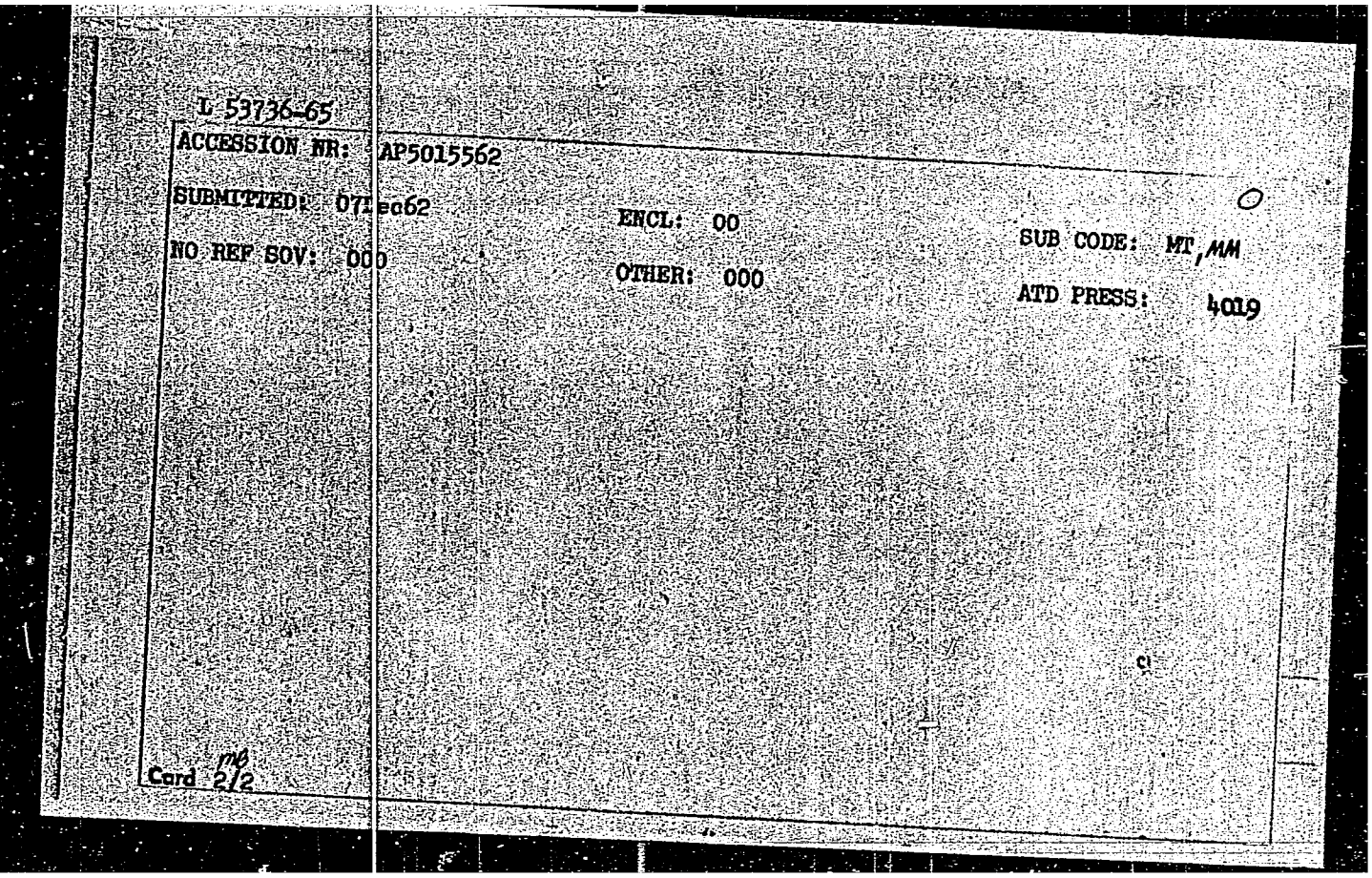

L 53736-65

ACCESSION NR: AP5015562

SUBMITTED: 07Dec62 ENCL: 00 SUB CODE: MT,MM

NO REF SOV: 000 OTHER: 000 ATD PRESS: 4019

Card 2/2 mg

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310005-3

L 56668-65 EWT(m)/EPF(c)/EWP(j)/T Pc-4/Pr-4 RM

ACCESSION NR: AP5017848 UR/0286/65/000/011/0080/0080

678.84+678.643

AUTHOR: Prutkov, L. M.; Andriamov, K. A.; Polikamin, N. A.; Asnovich, E. Z. 25 B

TITLE: A method for producing molding compounds. Class 39, No. 171577

SOURCE: Byulleten' izobretenii i tovarnykh znakov, no. 11, 1965, 80

TOPIC TAGS: molding material, plastic, graft copolymer

ABSTRACT: This Author's Certificate introduces a method for producing molding compounds based on a filler and binders--synthetic resins. The useful properties of the molding compounds are improved by using binders consisting of graft copolymers of epoxy resin and a polyorganosiloxane which contains a secondary amino group in the side chain.

ASSOCIATION: none

SUBMITTED: 24Mar62 ENCL: 00 SUB CODE: MT, GC

NO REF SOV: 000 OTHER: 000

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PLIKAN, Jaroslav

New species of Thysanoptera in Czechoslovakia. III. Cas entom 57 no.2:112-117 '60. (EEAI 10:1)

1. Tschechoslowakische Akademie der Wissenschaften, Brno.
(Czechoslovakia--Thrips)

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